### Industrial Waste Quarterly Self-Monitoring F

ort

Send to: King County Industrial Waste Program 201 S. Jackson Street, Suite 513

Seattle, WA 98104-3855

Phone 206-477-5300 / FAX 206-263-3001 Email: info.KCIW@kingcounty.gov

Company Name:	1/1/	diac.	T C -	This form is available at www.kingcounty.gov/industrialwaste
Company Name.	Northwest	CASCADE,	Inc - SEATTLE	This form is available at www.kingcounty.gov/mdustralwaste

Permit/DA No.: 4008-04 Please specify year: 20 /8 QUARTER 1 Sample Site No.: A4534/ All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required. C (Composite) G (Grab) Nonpolar fats, persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested Sample Type oils & grease Settleable Discharge Volume Month Sample BC (Batch) Total Monthly Flow ned to assure that qualified personnel tased on my inquiry of the person or Date (FOG) Solids on sample day (gallons) (Record (ml/L)(gallons) average only) <25 1-2-18 January 113.397 Total volume discharged for January or Authorized Agent February 114,220 Total volume discharged for February Signature of Principal Executive March Total volume discharged for March

► Maximum daily flow from this quarter:

gallons. Date on which maximum daily flow occurred:

Due Date: First Quarter Report is due by April 15 of each year.



## Industrial Waste Program Quarterly Self-Monitoring Report

Dire Date: Fourth Quarter Report is due by January 15 each year.

Send to: Fing County Industrial Waste Program 201 S. Jackson Street, Suite 513 \$ eattle, WA 98104-3855

F hone 206-477-5300 / FAX 206-263-3001
E mail: info.KCIW@kingcounty.gov

Co	mpany Na	ıme: N	lorthwest Ca	scade Inc	Seattle			This form is a	/ailable at \vww.king	jcounty.gov/industrialwaste.	
Ple All ı	ase specify units are mo	y year: 2	0 /7 therwise noted.	QUARTER Note: Write in sel	4 if-monitoring		e No.: <u>A4</u> ot provided, e		mit/DA No.: 4008-0		
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	1,4 - Dichlorobenzene (µg/L)					Discharge Volume on sample day (gallons)	Total Moi thly Flow (gall ɔns)	under my ad personnel person or 3 the e, accurate, e, accurate, tify that all	D'I'
October									The second secon	hart of hart o	20:10 Date
						Total volun	ne discharg	ed for October	124,916	l attachr esigned 1. Baser ectty res f my kno natties t nowing v	
November										certify under penalty of law that this document and all attachments were irrection or supervision in accordance with a system designed to assure the property gather and evaluate the information submitted. Based on my indicates who manage the system, or those persons directly responsible for a formation submitted is, to the best of my knowledge and indicated in a may are that there are significant penalties for submitting the possibility of fine and imprisonment for knowing violations. I lata requiring a laboratory analysis were analyzed by a Washington State accordited laboratory for each parameter tested.	or Authorized Agent
						Total volume	discharged	for November	114,369	law that n accord uate the s system on subn re that if if fine ar if fine ar y analy atory for	A diffine
segmone										tify under penalty of Alon or supervision is early gather and eval ons who manage the mation, the informati complete. I am awa ding the possibility o requiring a laborator ogy accredited labor	Signature of Principal Executive or Authorized Agent
V. S. Santana	igan un magamanta saura protestiva de cidado de destrol		n et dissept et en seus et seus et de seus dissept et en dissept et en de seus et en de seus et en de seus et e	eren egen semen et het het het en	gilliggingsgegge, a seame green is gamma-r-asemn noon - 6-vill efforter?	Total volume	discharged	for December	103,000	no de la	
ananiani	· Maximur	n daily file	ow from this ¢	uarter:	gall	<b>ons.</b> Date or	which ma	ximum daily fl	ow occured:		

## Industrial Waste Program Quarterly Self-N

itoring Report

Send to: King County Industrial Waste Program

201 § . Jackson Street, Suite 513 Seatt e, WA 98104-3855

Phon = 206-477-5300 / FAX 206-263-3001

Emai : info.KCIW@kingcounty.gov

Company Name: Northwest Cascade Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	1,4 – Dichlorobenzene (µg/L)			Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
-	6/5/7	G	425		+		
-							
				7	Total volume dis	charged for July	149,151
				Tot	tal volume discha	arged for August	143,990
				Total ve	olume discharge	d for September	137,333

Due Date: Third Quarter Report is due by October 15 each year.

### Industrial Waste Program Quarterly Self-! itoring Report

Send to: King County Industrial Waste Progra 201 S. Jackson Street, Suite 513

Seattle, WA 98104-3855 Phone 206-477-5300 / FAX 206-263-3001 Email: info.KCIW@kingcounty.gov

Company Name:	Northwest Cascade Inc Seattle	This form is available at www.kingcounty.gov/industrialwaste

QUARTER 2 Please specify year: 20 / Sample Site No.: A45341 Permit/DA No.: 4008-04 All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required. C (Composite) G (Grab) ant penalties for submitting false information, for knowing violations. I further certify that all data a Washington State Department of Ecology Sample Type Discharge Volume 1.4 -Sample BC (Batch) Total Monthly Flow frue, accurate, on sample day Dichlorobenzene Date (gallons) of the person or (gallons) (µg/L) <25 Total volume discharged for April Executive or Authorized Agent ne possibility of fine and imprisonment laboratory analysis were analyzed by laboratory for each parameter tested Total volume discharged for May

Total volume discharged for June

→ Maximum daily flow from this quarter:\_\_ gallons. Date on which maximum daily flow occurred:

Due Date: Second Quarter Report is due by July 15 each year.

Signature of Principal

complete nformation,

direction or

and compleincluding the requiring a lacendified a

### Industrial Waste Program Quarterly Self-N

toring Report

Send to: King County Industrial Waste Program

201 S. Jackson Street, Suite 513 Seattle, WA 98104-3855

Phon = 206-477-5300 / FAX 206-263-3001 Email: info.KCIW@kingcounty.gov

Company Name:	Northwest Cascade Inc Seattle	This form is available at www.kingcounty.gov/industrialwaste.

QUARTER 1 Please specify year: 20 / 7 Sample Site No.: A45341 Permit/DA No.: 4008-04 All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FO 3 or SS, if not required. C (Composite) G (Grab) BC (Batch) manage the system, or those persons directly responsible for gathering the he information submitted is, to the best of my knowledge and belief, true, accurate, I am aware that there are significant penalties for submitting false information, possibility of fine and imprisonment for knowing violations. I further certify that all data boratory analysis were analyzed by a Washington State Department of Ecology Sample Type Discharge Volume 1.4 -Sample Month Total Monthly Flow qualified personnel of the person or Dichlorobenzene on sample day Date (gallons) I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified person properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the (gallons) (µg/L) < 75 January Total volume discharged for January Signature of Principal Executive or Authorized Agent February 106,216 Total volume discharged for February including the possibility requiring a laboratory a accredited laboratory for March Total volume discharged for March gallons. Date on which maximum daily flow occurred: → Maximum daily flow from this quarter:

Due Date: First Quarter Report is due by April 15 each year.



### **Industrial Waste Program Quarterly Self-Monitoring Report**

Send to: Fing County Industrial Waste Program 201 S. Jackson Street, Suite 513

Seattle, WA 98104-3855

Fhone 206-477-5300 / FAX 206-263-3001 Email: Info.KCIW@kingcounty.gov

Company	Name:	Northwest	Cascade	-
			an abrah do der de do	-

Due Dale: Fourth Quarter Report is due by January 15 each year.

orthwest Cascade Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

	-	fy year: 2 g/l unless o		QUARTER Note: Write in s		e No.: <u>A4</u> ot provided, e.	5341 Peri g. Silver (Ag); dele		o.: <u>4008-0</u> FOG or S		28 22	
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	1,4 – Dichlorobenzene (µg/L)				Discharge Volume on sample day (gallons)	h	or thly Flow llons)	nder my I personnel eerson or the a accurate, rmation, rify that all	4	
October			10/24/16					156,	930	attachments were prepared under my signed to assure that qualified personnel assure state qualified personnel ed preson or ed presons or exponsible for gathering the my knowledge and belief, true, accurate, ratties for submitting false information, owing violations. I further certify that all Washington State Department of	01-03-1	Date
***************************************					Total volur	ne discharg	ed for October	156	930	attachn signed Based Ctly re ctly re my kno my kno ialties f wing v		
November			11/23/16							this document and all ance with a system de information submitted intended in the best of there are significant per d imprisonment for kn sis were analyzed by a each parameter teste		or Authorized Agent
		CONTRACTOR STATE AND STATE OF			Total volume	discharged	for November	144	140	of law that n in accord aluate the the system lation subm ware that it y of fine an ttory analys	W	ecutive
December					Total volume	discharged	for December	1/2	546	I certify under penalty of direction or supervision is properly gather and eval persons who manage the information, the information omplete. I am awa including the possibility of data requiring a laborato Ecology accredited labor	128	Signature of Principal Executive or Authorized Agent
<b>b</b>	Maximui	m daily flo	ow from this q	uarter:			ximum daily flo	nonemposauconos (Menorios e	* This hold be common or common and			i(V)

### Industrial Waste Program Quarterly Self-Nationing Report

Due Date: Third Quarter Report is due by October 15 each year.

Send to: King Jounty Industrial Waste Program

201 § . Jackson Street, Suite 513

Seattle, WA 98104-3855 Phon 3 206-477-5300 / FAX 206-263-3001

Emai: info.KCIW@kingcounty.gov

Co	mpany N	ame: I	Northwest Ca	scade Inc	Seattle		This form is a	vailable at www.king	county.gov/industrialw	aste.
	ease specin units are m			QUARTER Note: Write in se		Sample Site No.: parameters, if not provided		mit/DA No.: <u>4008-0</u> te or ignore FO 3 or S		
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	_1,4 - Dichlorobenzene (µg/L)				Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	er my ersonnel son or e ccurate, ation, that all data	
July					1			135,463	document and all attachments were prepared under my e with a system designed to assure that qualified personnel rmation submitted. Based on my inquiry of the person or those persons directly responsible for gathering the d is, to the best of my knowledge and belief, true, accurate, are significant penalties for submitting false information, prisonment for knowing violations. I further certify that all danalyzed by a Washington State Department of Ecology eter tested	10/4/16 Date
			Arc X inquision			Total volume di	ischarged for July		l attachmer esigned to to a sectly respondently from knowle malties for nowing violation shington Sinington Si	
August								161,044	is document and all at the with a system designmation submitted. In those persons directly the first of mission and in the pest of mission and in the manual standard of the meter fested.	
					,	Total volume disch	arged for August		v that thinconduction to the conduction of the c	utive or,
September	9-16-16	6	<12.5					162,840	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowling violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested	Signature of Principal Executive or Authorized Agent
	Marines	n daile fle	ow from this qu	the section of the se	MINISTER CONTRACTOR OF THE PROPERTY OF THE PRO	tal volume discharge	THE REPORT OF THE PROPERTY OF	ончески почетные се очина причено почето на технето на технето на технето на технето на технето на технето на т		Management medicines and Conversion of the Conve

### Industrial Waste Program Quarterly Self-N Atoring Report

Send to: King Jounty Industrial Waste Prograr.

201 S. Jackson Street, Suite 513 Seattle, WA 98104-3855

Phon : 206-477-5300 / FAX 206-263-3001 Emai: info.KCIW@kingcounty.gov

Company Name:

Northwest Cascade Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

Plea All u	ase specit units are m	f <i>y year:</i> 2 g/l unless o	0 <u>/6</u> therwise noted. ↓	QUARTER Note: Write in se		•	No.: A453 t provided, e.g.		nit/DA No.: <u>4</u> 008-0 e or ignore FO/3 or S	<del></del>	
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	1,4 - Dichlorobenzene (μg/L)	÷				Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	I under my jed personnel e person or mg the use accurate, riormation, ertify that all data of Ecology	9
April										re prepared under my re that qualified personr inquiry of the person or so gathering the and belief, true, accurating false information, I. I further certify that all bepartment of Ecology	Date
₹						Total vo	lume discha	rged for April	105,543	nent and all attachments were a system designed to assure to submitted. Based on my ind persons directly responsible for the best of my knowledge and the best of my knowledge and the tor knowing violations. I ad by a Washington State Depisted.	eteratura i i ili ilmana a pepida prisideli deli deli pepida pe
Мау											orized Agent
						Total vo	lume discha	rged for May	121,026	of law that this document n in accordance with a sy raluate the information su the system, or those pers lation submitted is, to the ware that there are signifi y of fine and imprisonmer analysis were analyzed b for each parameter tested	cutive or Auth
June	61-16		<12.5							// spo	Signature of Principal Executive or Authorized Agent
7	and the second of the second o					Total volu	ume dischar	ged for June	135, 238	l certify under direction or su properly gathe properly gathe persons who information, the and complete including the prequiring a lab accredited labor	Signature o
_>	Maximu	m daily flo	ow from this q	uarter:	gallo	n <b>s.</b> Date on	which max	imum daily flo	w occurre 1:		
Due	Date: S	econd Qu	arter Report is	due by July	15 each ye	ar.	QUA	nter Tor	AL 361,86	7	

Please specify year: 20 16

### Industrial Waste Program Quarterly Self-N itoring Report

QUARTER

Send to: King County Industrial Waste Program

201 S. Jackson Street, Suite 513 Seatl e, WA 98104-3855

Phone 206-477-5300 / FAX 206-263-3001 Email: info.KCIW@kingcounty.gov

Sample Site No.: A45341

Company Name: Northwest Cascade Inc. - Seattle This form is available at www.kingcounty.gov/industrialwaste.

Permit/DA No.: 4008-04

All	units are m	g/l unless o	therwise noted. ▼	Note: Write in se ▼	If-monitoring  ▼	parameters, if no	ot provided, e.	g. Silver (Ag); delet	e or ignore FO 3 or S	SS, if not required.	
Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	1,4 – Dichlorobenzene (µg/L)					Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)	ler my personnel rson or ne accurate, nation, r that all data	1/8
January						Total volum	ne discharg	ed for January	41 8/14/16 99,409 13,290	tachments were prepared unclined to assure that qualified to Based on my inquiry of the perty responsible for gathering the y knowledge and belief, true, a lifies for submitting false informing violations. I further certify ington State Department of Ec	4/4/11.
February						Total volume	discharge	d for February	5/17/16 110,255 14,740	at this document and all at rdance with a system desi ne information submitted. I sm, or those persons direct of mitted is, to the best of mitter are significant pena and imprisonment for know were analyzed by a Washi parameter tested	e or Authorized Agent
March	3-17-16		<25°						\$/12/16 120,877 16,160	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested	Signature of Principal Executive or Authorized Agent
->	Maximu	m daily flo	ow from this o	uarter:	gallo	ons. Date on	which ma	ximum daily fl		44,190 33	30,541
Due	Date: F	irst Quart	er Report is d	ue by April 15	each yea	r.				A 3	117/16

## **Industrial Waste Semi-Annual Self-Monitoring Report**

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Scattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Northwest Cascade, Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

Pla	ease specij	fy year:	20_/5	Semi-An	nual Rep	port for Se	emester 1	Samp	le Site No.:	A45341	Permit	t/DA No.: 4008	<u>l-03</u>
All	units are mg	/l unless of	therwise noted	. Note: Wri	ie in self-mo	onitoring para	ameters, if not	provided,	e.g. Silver (Ag)	or settleabl	e solids (ml/L).		
-	Sample Date month/day	Sample Type C (Composite) G (Grab) BC (Batch)							1,4 – Dichlorot (µg/L)	penzene	Total Monthly Flow (gallons)	or nd evaluate those persons agge and difformation, auting a	la la
Semester 1	Jan/ Feb/ Mar/ Apr/ May/ Jun/30	Grab						4	<12.5	>	85,496 126, 262 133,219 131,812 123,644	certify under penalty of law that this document and all attachments were prepared under my direction or upervision in accordance with a system designed to assure that qualified personnel properly gather and be information submitted. Based on my inquiry of the person or persons who manage the system, or the irectly responsible for gathering the information, the information submitted is, to the best of my knowled elief, true, accurate, and complete. I am aware that there are significant penalties for submitting false in cluding the possibility of fine and imprisonment for knowing violations. I further certify that all data requisionstatory analysis were analyzed by a Washington State Department of Ecology accredited laboratory farameter tested.	901 7-2 - 2015 Sent Date
)	<b>b</b>					Talkian and the same of the sa	Total	Volume 8	Semester 1:	124	887 gallons	and all ned to a voi the in the in torkr	TY 88
N	OTES:	77			Have the second							I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting faise information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.	Can Change Signature of Principal Executive of Authorized Agent

Dire Date: Semi-annual report for Semester 1 is due by July 15 of each year. Please Note: Do not include original laboratory reports with this form unless otherwise requested. Keep the original laboratory reports on file and available for inspection for at least 3 years.

## **Industrial Waste Semi-Annual Self-Monitoring Report**

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200

Seattle, WA 98109-1658 Phone 206-263-3000 / FAX 206-263-3001

Company Name: Northwest Cascade, Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

r	ease specij		2014		Report for Seme		ample Site No.:			t/DA No.: 4008	1-03
All	units are mg	/I unless ot	herwise noted	. Note: Write in self	monitoring parame	ters, if not provi	ded, e.g. Silver (Ag) o	or settleable	solids (ml/L).		
	Sample Date month/day	Sample Type C (Composite) G (Grab) BC (Batch)					1,4 – Dichlorober (μg/L)	nzene	Total Monthly Flow (gallons)	or nd evaluate hose persons deand information, luiring a for each	<b>V</b>
	Jul/								120,428	ny direction hy gather ar system, or t f my knowle nitting false t all data rec d laboratory	(201
ત	~uy/								146,084	nder m proper ge the best of or subr lify that	4
Semester 2	Sep/								134, 939	spared u ersonnel o manag s, to the nalties & ther cert	Date
Sen	Oct/ <u>30</u>	Grab					(12.5)		129,778	vere pre	
	Nov/	:							115, 491	ments v that qua n or pers tion subi e signifi violatior partmen	
	Dec/								92,079	assure assure person informa there an trate De t	
_>	•					Total V	olume Semester 2	138,9	gallons	if and a y of the y of the re that art for k	Z pezi
NC	OTES:				The state of the s					I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted by the best of my knowledge and directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, frue, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.	Signature of Principal Executive or Muthorized Agent

## **Industrial Waste Semi-Annual Self-Monitoring Report**

Mail or FAX to:

King County Industrial Waste

130 Nickerson Street, Suite 200 Scattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Northwest Cascade, Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

Pl	ease specij	fy year:	20_14	Semi-Annual Report for Sen	nester 1 Sam	ple Site No.: <u>A4</u>	1 <u>5341</u> Permi	t/DA No.: 4008-03	
All	units are mg	/I unless of	therwise noted	. Note: Write in self-monitoring param	neters, if not provided	l, e.g. Silver (Ag) or se	ettleable solids (ml/L).		***************************************
	Sample Date month/day	Sample Type C (Composite) G (Grab) BC (Batch)			1	1,4 – Dichlorobenze (µg/L)	ene Total Monthly Flow (gallons)	or nd evaluate hose persons dge and information, quiring a for each	
Semester 1	Jan/ 2.[ Feb/	Grab				<12.5>	95,594 84,449 99,035 101,518	is were prepared under my direction of qualified personnel properly gather an ersons who manage the system, or the ubmitted is, to the best of my knowler inficant penalties for submitting false tions. I further certify that all data requent of Ecology accredited laboratory	Date
	May/		3		Total Volume	Semester 1:	105, 992 117, 511 604, 160 gallons	ment and all attachment esigned to assure that or eguiny of the person or pation, the information saware that there are signment for knowing violatshington State Departm	thorized Agent
N	OTES:							I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.	Signature of Principal Executive or Authorized Agent

### **Industrial Waste Semi-Annual Self-Monitoring Report**

Mail or FAX to:

King County Industrial Waste

130 Nickerson Street, Suite 200 Seattle, WA 98109-1658 Phone 206-263-3000 / FAX 206-263-3001

Company Name: Northwest Cascade, Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

Ple	ease specif	y year:	20_13	Semi	-Annual 3	Report fo	r Semeste	r 2 Sa	mple Site No.:	A45341	<u>Permi</u>	t/DA No.: 4008-03
All	units are mg	/I unless ot	herwise note	ed. Note:	Write in sel	f-monitoring	parameters,	if not provid	ded, e.g. Silver (Ag)	or settleab	le solids (ml/L).	
,	Sample Date month/day	Sample Type C (Composite) G (Grab) BC (Batch)							1,4 – Dichlorobe (µg/L)	enzene	Total Monthly Flow (gallons)	or nd evaluate those persons edge and information, quiring a y for each
	Jul/										108,909	y direction y gather a ystem, or my knowle itting false all data re laboraton
7	Aug/										118, 109	nder my properly e the s best of r subm fiy that redited
Semester 2	Sep/										113,098	spared ur ersonnel jo no manag s, to the l malties fo ther cert ology acc
Sem	Oct/										120,204	were private p
	Nov/										90,583	nments v that qua n or pers tifon sub re signifi violation spartmer
	Dec/ 27	Grab							112.5,	>	12,481	all attacl o assure ne perso s informa t there a t there a State De
<u>-</u> >	•							Total V	olume Semester :	2:623,	383 gallons	nt and gned to gned to the iny of the iny of the iny of the ington ington ington orized
No	OTES:											I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, frue, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.  **Macron Macro M

Due Date: Semi-annual report for Semester 2 is due by January 15 of each year. Please Note: Do not include original laboratory reports with this form unless otherwise requested. Keep the original laboratory reports on file and available for inspection for at least 3 years.

## **Industrial Waste Semi-Annual Self-Monitoring Report**

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Northwest Cascade, Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

Ple	ase specif	y year:	20_13_	Semi-Anı	ual Rep	ort for S	emester 1	Samp	le Site No.:	A45341	Per	mit/DA No.: 4008	<u>8-03</u>
All	units are mg/	'i unless of	therwise noted	Note: Write	in self-mo	onitoring par	ameters, if not	provided,	e.g. Silver (Ag)	or settleab	le solids (ml/L).		
	Sample Date month/day	Sample Type C (Composite) G (Grab) BC (Batch)							1,4 – Dichlorok (µg/L)	enzene	Total Monthly Flow (gallons)	or nd evaluate those persons edge and e information, quiring a	
	Jan/										82,878	my direction erly gather a system, or of my knowl bmitting false at all data reced laborator	27
Semester 1	Mar/										15,841, 30,144	pared under rsonnel prop o manage that, to the best nalties for sul ther certify the logy accredit	Date Date
Sem	Apr/										138,604	s were pre ualified pe ensons who ubmitted is lificant per informs. I furthent ons. I furthent of Eco	
	May/										69,340	chments e that que on or pe nation su are sign go violati	
	Jun/ <u>05</u>	amp							< 12.5		92,453	I all atta to assur the pers e inform at there r knowir	Agent
	OTES:						The state of the s			489,	267 gallons	I certify under penalty of law that this document supervision in accordance with a system design the information submitted. Based on my inquiry directly responsible for gathering the informatio belief, true, accurate, and complete. I am awar including the possibility of fine and imprisonmer laboratory analysis were analyzed by a Washin parameter tested.	F. M. O. L. L. Signature of Principal Executive or Authorized Agent
oth	e vater Se erwise requ	mi-annua uested. K	I report for Se (eep the origi	emester 1 is nal laborator	due by Ji y reports	uly 15 of ea on file and	ach year. Plea I available for	ase Note inspection	Do not includ on for at least 3	e original 3 years.	laboratory reports	s with this form unless	

# **Industrial Waste Semi-Annual Self-Monitoring Report**

Mail or FAX to:

King County Industrial Waste

130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Northwest Cascade, Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

Pie	ase specij	y year:	20_1_&_	Semi-	Annual ]	Report for	r Semeste	er 2 San	nple Site No.:	A45341		Permi	t/DA No.: 4008-	<u>-03</u>	
All	units are mg	/I unless of	therwise noted	l. Note: 1	Write in sel	f-monitoring	parameters	, if not provide	d, e.g. Silver (Ag) or	r settleable	e solids (n	nl/L).			
	Sample Date month/day	Sample Type C (Composite) G (Grab) BC (Batch)							1,4 – Dichlorobenzo (μg/L)		Total Mo	nthly Flow llons)	direction or gather and evaluate stem, or those persons by knowledge and ting false information, all data requiring a aboratory for each		
7	Jul/										106,	814 207	document and all attachments were prepared under my direction or tem designed to assure that qualified personnel properly gather and evaluate in my inquiry of the person or persons who manage the system, or those person information, the information submitted is, to the best of my knowledge and I am aware that there are significant penalties for submitting false information, phrisonment for knowing violations. I further certify that all data requiring a real Washington State Department of Ecology accredited laboratory for each	12	200
Semester	Sep/Oct/	Grab							17		105,	244	re prepared un ied personnel p ns who manage titted is, to the but penalties for int penalties for I further certify of Ecology accre	1/4	Date
	Nov/		Annual designation of the second seco								81,	2-33	attachments we save that qualification or person or person formation submitted and a signification or person or pers		ant
->		-						Total Vol	ume Semester 2:	120.9		7/6	d to as of the right the right the right to a second t		ed Ag
	DTES:	emi-annua	al report for S	emester	2 is due l	oy January	15 of each						certify under penalty of law that this supervision in accordance with a systhe information submitted. Based or directly responsible for gathering the pelief, true, accurate, and complete. Including the possibility of fine and in aboratory analysis were analyzed by parameter tested.	I am Enter	Signature of Principal Executive or Authorized Agent
oth	erwise requ	uested. K	eep the origi	nal labor	atory rep	orts on file	and availat	ole for inspec	tion for at least 3 y	iciude ori <sub>!</sub> years.	ginal labo	oratory repo	orts with this form u	nless	

### **Industrial Waste Semi-Annual Self-Monitoring Report**

Mail of FAX to;

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Northwest Cascade, Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

Pla	Please specify year: 20 /2 Semi-Annual Report for Semester 1 Sample Site No.: A45341 Permit/DA No.: 4008-03  What we will units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag) or settleable solids (ml/L).													
All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag) or settleable solids (ml/L).  Sample 3 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5														
	Sample Date month/day	Sample Type C (Composite) G (Grab) BC (Betch)							1,4 — Dichtorob (µg/L)		3	onthly Flow allons)	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gether and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, thue, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each	
	Jan/										58,	7/8	all attachments were prepared under my direction or assure that qualified personnel properly gather and the person or persons who manage the system, or the information submitted is, to the best of my knowledge there are significant perelifies for submitting false in knowing violations. I further certify that all data requisitate Department of Ecology accredited laboratory for	
	Feb/										12.	556	der my roperty stress of r suffed a	12
Semestor 1	Marl										72,	130	pared un risonnel r o manega i, to the b helties for ther certil	2/2 Ball
Š	Apri										96.	567	Mitted And And And And And And And And And An	22.2.4.4.5000000000000000000000000000000
	Mey/										95	295	ments v that qua to pers to pers to signific violation	
	Jun/ <u>20</u>	<b>Cup</b>							13.0		108	834	assure person information information information information information is a person information is a person information is a person information is a person information info	Gent
->							Tob	al Volume :	Semester 1: 5	514, 1	A	gallons	m and a single of the single o	/ pezju
NC	TES:	**************************************	P.	9 /						AMA NEW TOWN OF THE SECOND			I certify under penalty of law that this document and supervision in accordance with a system designed if the Information submitted. Based on my inquiry of the circumsting responsible for gathering the information, the belief, the accurate, and complete. I am aware that including the possibility of fine and imprisonment for laboratory analysis were analyzed by a Washington parameter tested.	1.701. S.M.A. Sigkature of Principal Executive or Authorized Agent
		š.		 F									aw that a with a with a second of fine and year.	X acuti
				<b>₽</b>		d ·	•						Apply of the parties	
				<b>,</b>									nder per hallon st. seponsib e, accur the poss	S of Prin
					,		<u>.</u>					and interviewed and the second and t	I certify under pe supervision in ac the information a directly responsit belief, true, accur including the posi including the posi aboratory anarys	Ngwaitin/

Dire Date: Semi-annual report for Semester 1 is due by July 15 of each year. Please Note: Do not include original laboratory reports with this form unless otherwise requested. Keep the original laboratory reports on file and available for inspection for at least 3 years.



## **Industrial Waste Semi-Annual Self-Monitoring Report**

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Northwest Cascade, Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

Ple	ase specij	fy year:	20	Semi-	Annual I	Report for	r Semeste	er 2 Sa	mple Site No.:	<u>A45341</u>	Permi	t/DA No.: 4008	<u>i-03</u>
All	units are mg	/I unless ot	herwise noted	. Note: '	Write in self	-monitoring	parameters	, if not provid	ed, e.g. Silver (Ag)	or settleab	ie solids (ml/L).		
	Sample Date month/day	Sample Type C (Composite) G (Grab) BC (Batch)							1,4 – Dichlorobei (µg/L)	nzene	Total Monthly Flow (gallons)	or nd evaluate those persons edge and information, quiring a	1
	Jul/										113,322	direction gather a stem, or stem, or yk knowk ing false ting false aborator	
2	Aug/									:	106.964	nder my properly ge the sy best of n or submit ify that a	27
Semester 2	Sep/										71,788	epared u ersonnel or manag s, to the malties for ther cert	0 se
Sem	Oct/	<b>*************************</b>							MANAGE TO THE STATE OF THE STAT		88,339	were propertied political	
	Nov/ <u>82</u>	GRAB							17		89.685	chments e that quo no pe that quo no pe that quo no pe that quo no	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Dec/				MANANA	:					51,462	d all atta to assur the pers e inform at there r knowin	1 Agent
_>						**************************************		Total Vo	lume Semester 2	547,7	60 gallons	nent and signed fully of ation, the ware the ment for this shington.	orizec
NC	TES:											I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.	MBMA Signature of Principal Executive or Authorized Agent

**Due Date:** Semi-annual report for Semester 2 is due by January 15 of each year. Please Note: Do not include original laboratory reports with this form unless otherwise requested. Keep the original laboratory reports on file and available for inspection for at least 3 years.

# **Industrial Waste Semi-Annual Self-Monitoring Report**

Mail or FAX to:

King County Industrial Waste 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Phone 206-263-3000 / FAX 206-263-3001

Company Name: Northwest Cascade, Inc. - Seattle

This form is available at www.kingcounty.gov/industrialwaste.

Ple	ease specif	y year:	20_//_	Semi-An	nual Report	for Semester 1	Samp	le Site No.:	A45341	Permi	t/DA No.: 4008-	-03
All	units are mg	/I unless ot	herwise noted.	Note: Writ	e in self-monitor	ing parameters, if no	t provided.	e.g. Silver (Ag) o	r settleable	e solids (ml/L).		
	Sample Date month/day	Sample Type C (Composite) G (Grab) BC (Batch)		TOTAL BASE OF THE STATE OF THE			:	1,4 – Dichlorobe (µg/L)	enzene	Total Monthly Flow (gallons)	or Id evaluate hose persons dge and information, uiring a for each	
	Jan/									53,893 103,725	der my direction roperly gather ar the system, or the system, or the st of my knowle submitting false that all data required laboratory	[11]
Semester 1	Mar/	-								111, 183	prepared unc y personnel pi who manage ad is, to the ba penalties for further certify Ecology accre	7/6 Date
S	May/	<u> </u>	Appendix in the constraint of							92,767	thments were that qualified in or persons ation submitted in significant in significant is violations.	
	Jun/ <u>21</u>	GRAB						< 25		91,092	all attac assure a sesure ne perso informi t there a knowing	Agent
NC	otes: p were meters	uE To Replai	p city red and Be fra	of Salx	He Regu Functions thout E	irements y  I June 8  nyeking th		Semester 1: 5  Ste and his was reperly.		69 gallons  R MeXeR  le 50 Yhe	l certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.	M. Viller. Signature of Principal Executive or Authorized Agent
Parame						•					l certify supervi the info directly belief, to includin laborate	Signa



# NW CASCADE

MAY 2 9 2015

#### **Wastewater Treatment Division**

Industrial Waste Program
Department of Natural Resources and Parks
201 South Jackson Street, Suite 513
Seattle, WA 98104-3855

**206-477-5300** Fax 206-263-3001 TTY Relay: 711

May 26, 2015

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on May 4, 5, and 6, 2015, are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-477-5457.

Sincerely,

Dana Heinz

Compliance Investigator

**Enclosures** 

#### Northwest Cascade Inc. - Seattle

#### **Field Measurements**

Site #

A45341 - clean-out from solids separator

Sample Date

04-May-2015

Sample # Sample Code

L62716-4 Grab

Discharge Rate

1055

NA

Time Span

NA Hour(s)

**Start Time** 

	piccommunity in annual contraction of the contracti	·····	······································			
Parameters CAS	Concentration	Units Sta	atus	Mass Load	Units Status	- 1
		- warraw	presidents.	TOTAL DESCRIPTION	AND IN THE PARTY OF THE PARTY O	
nH Field	0.5	CII Ca	mantion o	NIA.	h l A	
pri, rielu	0.0	30   G0	impliance	NA	NA.	- 1

Site #

A45341 - clean-out from solids separator

Sample Date

05-May-2015

Sample # Sample Code L62716-5

Grab

**Discharge Rate** 

Time Span

NA

Start Time 1145

Parameters	CAS	Concentration	Units	Status	Mass	Load	Units Status	-
pH, Field		9	SU	Compliance		NA	NA	

Site #

A45341 - clean-out from solids separator

Sample Date

06-May-2015

Sample # Sample Code L62716-6

Grab

Discharge Rate

Time Span

**Start Time** 

NA

1240

NA

NA

**Parameters** CAS Units Status Concentration Mass Load Units Status pH, Field 8.9 SU Compliance NA NA

#### Organics - VOA

Site #

A45341 - clean-out from solids separator

Sample Date

04-May-2015

Sample # Sample Code

Grab

L62716-7

**Discharge Rate** 

Time Span

NA Hour(s)

Start Time

NA 1055

p		<u> </u>		
Parameters	CAS	Concentration	Units	Status
1 000.000			40 1 1 0 4 40	1 40 444 444
1.4-Dichlorobenzene	106-46-7	kRDL 15	ua/L	Compliance
1,4-Dichlorobenzene	106-46-7	KKUL 15	ug/L	Compliance

-	Mass	Load	Units	Status
The same of		NA		NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data; SGT=Nonpolar Oil Result, Silica Gel Treated.

### Northwest Cascade Inc. - Seattle

#### Surcharge

Site #

A45341 - clean-out from solids separator

Sample Date

04-May-2015

**Discharge Rate** 

NA

Sample #

L62716-1

Time Span

Hour(s)

Sample Code

Grab

**Start Time** 

NA 1055

Parameters C	CAS	Concentration	Units	Status	Mass Load	Units	Status	
Biochemical Oxygen Deman		10700	mg/L	NA	NA		NA	
Total Suspended Solids		13900	mg/L	NA	NA		NA	

Site #

A45341 - clean-out from solids separator

Sample Date

05-May-2015

Discharge Rate

NA

Sample #

L62716-2

Time Span

NA Hour(s)

Sample Code

Grab

Start Time

1145

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Deman		5910	mg/L	NA
Total Suspended Solids		5400	mg/L	NA

	-	Mass Load	Units	Status	
-	-	NA		NA	
	-	NA		NA	

Site#

A45341 - clean-out from solids separator

Sample Date

06-May-2015

**Discharge Rate** 

NA

Sample #

L62716-3

Time Span

NA Hour(s)

Sample Code

Grab

**Start Time** 

1240

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Deman		747	mg/L	NA
Total Suspended Solids		1320	mg/L	NA

÷	400000000000000000000000000000000000000		·
	Mass Load	Units	Status
	NA		NA
	NA		NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data; SGT=Nonpolar Oil Result, Silica Gel Treated.



# NW CASCADE

IDEC 11 2014

**Wastewater Treatment Division** 

Industrial Waste Program
Department of Natural Resources and Parks
201 South Jackson Street, Suite 513
Seattle, WA 98104-3855

**206-477-5300** Fax 206-263-3001 TTY Relay: 711

December 4, 2014

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on November 17 and 18, 2014, are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-477-5440.

Sincerely,

Arnaud Girard Compliance Investigator

Enclosure

### Northwest Cascade Inc. - Seattle

#### **Field Measurements**

Site #

A45341 - clean-out from solids separator

Sample Date

17-Nov-2014

Sample # Sample Code L61671-3

Grab

Discharge Rate

NA

Time Span

NA Hour(s)

Start Time 1400

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
pH, Field		9	SU	Compliance	NA		NA

#### **Organics - VOA**

Site#

A45341 - clean-out from solids separator

Sample Date

17-Nov-2014

Sample # Sample Code L61671-4

Grab

**Discharge Rate** 

NA

NA

NA

Time Span

NA Hour(s)

**Start Time** 

1400

Parameters	CAS	Concentration	Units	Status	Mass Load	Units Status	
1,4-Dichlorobenzene	106-46-7	<mdl< td=""><td>ug/L</td><td>Compliance</td><td>NA</td><td>NA</td><td></td></mdl<>	ug/L	Compliance	NA	NA	

#### Surcharge

Site#

A45341 - clean-out from solids separator

Sample Date Sample #

Sample Code

17-Nov-2014

L61671-1

Grab

Discharge Rate

NA

Time Span Start Time 1400

Parameters	CAS	Concentration	Units	Status	M	ass Load	Units Status
Biochemical Oxygen Deman		8850	mg/L	NA		NA	NA
Total Suspended Solids		9370	mg/L	NA		NA	NA

Site#

A45341 - clean-out from solids separator

Sample Date

Sample Code

18-Nov-2014

Sample #

L61671-2

Grab

Discharge Rate

Time Span

NA Hour(s)

**Start Time** 

1345

- 10						46		
Parameters	CAS	Concentration	Units	Status		Mass Load	Units	Status
Biochemical Oxygen Deman		8950	mg/L	NA		NA		NA
Total Suspended Solids		15100	mg/L	NA	1	NA		NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data; SGT=Nonpolar Oil Result, Silica Gel Treated.



NW CASCADE

IFEB 17 2014

**Wastewater Treatment Division**Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

February 12, 2014

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on January 28 and 29, 2014, are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford

Compliance Investigator

Enclosure

#### Northwest Cascade Inc. - Seattle

#### **Field Measurements**

Site#

A45341 - clean-out from solids separator

**Sample Date** 

28-Jan-2014

Sample # Sample Code L59572-3

Grab

**Discharge Rate** 

NA

**Time Span** 

NA Hour(s)

**Start Time** 

1540

Parameters	CAS	Concentratio	n	Units	Status	Mass Load	Units	Status	
pH, Field			9.2	SU	Compliance	NA	:	NA	

#### Organics - VOA

Site#

A45341 - clean-out from solids separator

Sample Date

28-Jan-2014

Sample # Sample Code

L59572-4

Grab

**Discharge Rate** 

NA

Time Span **Start Time** 

1540

**Parameters** CAS Units Status Concentration 1.4-Dichlorobenzene Compliance 106-46-7 <MDL ug/L

Mass Load	Units	Status	
NA		NA	

NA

NA

NA

#### Surcharge

Site #

A45341 - clean-out from solids separator

Sample Date Sample #

28-Jan-2014

L59572-1

Sample Code

Grab

Discharge Rate

Time Span NA

Start Time

1540

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status	
Biochemical Oxygen Deman		5320	mg/L	NA	NA	<del></del>	NA	
Total Suspended Solids		3680	mg/L	NA	NA NA		NA	

Site#

A45341 - clean-out from solids separator

Sample Date

29-Jan-2014

Sample # Sample Code

Grab

L59572-2

**Discharge Rate** 

Time Span

NA Hour(s)

**Start Time** 

1500

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status	
Biochemical Oxygen Deman		6740	mg/L	NA	NA NA	***************************************	NA	
Total Suspended Solids		5800	mg/L	NA	NA		NA	

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data; SGT=Nonpolar Oil Result, Silica Gel Treated.



NW CASCADE

AUG 2 9, 2013

Wastewater Treatment Division
Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
206-263-3000 Fax 206-263-3001

August 28, 2013

TTY Relay: 711

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on August 14, 2013, are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3008 or email me at jim.sifford@kingcounty.gov.

Sincerely,

Im Sifford

Compliance Investigator

Enclosure

1202M

#### Northwest Cascade Inc. - Seattle

#### Field Measurements

Site #

A45341 - clean-out from solids separator

Sample Date

14-Aug-2013

Discharge Rate Time Span

NA

Sample #

L58525-1

NA

Sample Code

Grab

Start Time

1510

Parameters	CAS	Concentration	Units	Status	Mass Load	Units Status
pH, Field		8.8	SU	Compliance	NA NA	NA NA

#### Organics - VOA

Site#

A45341 - clean-out from solids separator

Sample Date

14-Aug-2013

**Discharge Rate** 

NA

Sample #

L58525-2

Time Span

NA

Sample Code

Grab

**Start Time** 

1510

Parameters		AS Con	centration	Units	Status		Mass Load	Units	Status	
1,4-Dichlorobenzene	106	-46-7 KRDL	17	ug/L	Compliance	11	NA		NA	
W								***************************************	***************************************	

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data; SGT=Nonpolar Oil Result, Silica Gel Treated.



NW CASCAGE

**Wastewater Treatment Division** Industrial Waste Program Department of Natural Resources and Parks 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658 206-263-3000 Fax 206-263-3001

April 25, 2013

TTY Relay: 711

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on April 3, 2013 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford Investigator

Industrial Waste Program

Enclosure(s)

1505M

#### Northwest Cascade Inc. - Seattle

#### **Field Measurements**

Site#

A45341 - clean-out from solids separator

Sample Date Sample #

Sample Code

03-Apr-2013

L57696-1

Grab

**Discharge Rate** 

NA

NA

Time Span

NA Hour(s)

Start Time

1600

Parameters CAS Concentration Units S	Status	Mass Load U	nits Status
pH, Field 8.6 SU 0	Compliance	NA	NA

#### Organics - VOA

Site #

A45341 - clean-out from solids separator

Sample Date Sample #

Sample Code

03-Apr-2013

L57696-2

Grab

**Discharge Rate** 

Time Span

NA

Start Time

1600

Parameters	CAS	Concentration	Units	Status	Mass Load Units	Status
1,4-Dichlorobenzene	106-46-7	<b>KMDL</b>	ug/L	MDL > Limit	NA	NA
		Ev				A

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data; SGT=Nonpolar Oil Result, Silica Gel Treated.



**Wastewater Treatment Division** 

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

NW CASCADE

MAY 27 2011

May 24, 2011

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that the wastewater from Northwest Cascade Inc. - Seattle exceeds the King County Organic Compound Screening Level for 1,4-Dichlorobenzene. Because the results are within the accuracy range of the testing procedure, King County will not proceed with further action at this time. The results of the sample(s) taken on May 5, 2011, are enclosed.

If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford

Compliance Investigator

**Enclosures** 

### Northwest Cascade, Inc. - Seattle

#### **Field Measurements**

Site#

A45341 - clean-out from solids separator

Sample Date

05-May-2011

Sample # Sample Code L53202-2

Grab

**Discharge Rate** 

Time Span

NA Hour(s) NA

NA

Start Time

1525

Parameters	CAS	Concentration	Units	Status	Mass Load	Units St	atus
pH, Field		9.06	SU	Compliance	NA	N/	١

#### Organics - VOA

Site#

A45341 - clean-out from solids separator

Sample Date

05-May-2011

Sample # L53202-3 Sample Code

Grab

Discharge Rate

Time Span

NA

Start Time

1525

Parameters	CAS	Concentration	Units	Status	Mass Load	Units Status	1
1,4-Dichlorobenzene	106-46-7		9 UG/L	NOV_NO_ACTI	NA	NA	]

#### Surcharge

Site#

A45341 - clean-out from solids separator

Sample Date Sample #

05-May-2011

L53202-1

Sample Code Grab

Discharge Rate

NA

Time Span

NA Hour(s)

Start Time 1525

Parameters	CAS	Concentration	Units	Status	Mass Load Units	Status
Biochemical Oxygen Demand	ſ	6730	MG/L	NA	NA	NA
Total Suspended Solids		15000	MG/L	NA	NA	NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.</p>



## NW CASCADE

NOV 1 4 2011

### **Wastewater Treatment Division**

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

November 9, 2011

Marty Diklich Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

#### 1,4-Dichlorobenzene Exceedance - No Further Action

Dear Mr. Diklich:

The King County Industrial Waste Program has reviewed your November 4, 2011, letter regarding the 1,4-dichlorobenzene screening level exceedance that occurred at the Northwest Cascade Inc. - Seattle facility on September 14, 2011.

In accordance with Major Discharge Authorization No. 4008-03, Special Condition B, Northwest Cascade Inc. has submitted a plan to ensure continued compliance with the screening limit. In response to the exceedance, Northwest Cascade Inc. has taken a number of corrective actions in an effort to identify and remedy any possible sources of 1,4-dichlorobenzene. Because subsequent monitoring indicates that your discharge is back in compliance with discharge screening level standards, King County will take no further enforcement action at this time.

If you have any questions, please call me at 206-263-3008 or email me at jim.sifford@kingcounty.gov.

Sincerely,

Jim Sifford

Compliance Investigator

cc: Re

Ron Inman, Northwest Cascade Inc. Julie Howell, Seattle Public Utilities Doug Hilderbrand, King County



# NORTHWEST CASCADE INC.

POST OFFICE BOX 73399, PUYALLUP. WASHINGTON 98373 / NORTHC1148BG

ber 4, 2011

Mr. Jim Sifford Investigator King County Wastewater Treatment Division Industrial Waste Program 130 Nickerson Street, Suite 200 Seattle, Washington 98109-1658

Dear Mr. Sifford:

Northwest Cascade provides this report in response to the County's October 6, 2011 Notice of Violation, which indicated a one-time 1,4-dichlorobenzene concentration of 60.1 ppb. Pursuant to that Notice, Northwest Cascade performed the requisite sampling and analysis of its wastewater. Results from this sampling and analysis are enclosed for your review. As you will see, these results demonstrate that Northwest Cascade is in compliance with the 1,4-dichlorobenzene discharge levels established by Special Condition B of our King County Industrial Waste Discharge Authorization (the "Permit").

The cause of the 1,4-dichlorobenzene exceedence referenced in the County's Notice of Violation remains unknown. As you are aware, Northwest Cascade quit using, and physically removed, all urinal blocks containing 1,4-dichlorobenzene over 18 months ago. Such urinal blocks were the only 1,4-dichlorobenzene-containing product ever used by Northwest Cascade on the property. While testing performed pursuant to the Permit periodically shows trace amounts of 1,4-dichlorobenzene in the wastewater discharged from the property, these trace amounts have all been well within the limits set in the Permit. The test results obtained by King County represent an anomaly of unknown origin.

In response to the County's Notice of Violation, Northwest Cascade has taken a number of corrective actions in an effort to identify and remedy any possible source(s) of the 1,4-dichlorobenzene exceedence observed by the County. Specifically:

- Northwest Cascade had its route drivers check every individual portable toilet on routes serviced from the Seattle yard to insure that there were no 1,4-dichlorobenzene urinal blocks still in use;
- Northwest Cascade checked every truck's stock to insure that drivers were not still carrying 1,4dichlorobenzene urinal blocks in Northwest Cascade's service vehicles; and
- 3) Northwest Cascade checked all of its stock of materials to insure that it did not have any 1,4-dicholorobenzene urinal blocks anywhere in its system.

Through these efforts, Northwest Cascade was unable to identify a source of 1,4-dichlorobenzene in its system. At this time, the precise source(s) of the exceedence observed by King County remains unknown.

While the source(s) of 1,4-dichlorobenzene are unknown, Northwest Cascade has taken the following proactive steps to insure ongoing compliance with the Permit:

- 1) Northwest Cascade has inspected its entire supply chain to ensure that there is no current usage of 1,4-dichlorobenzene urinal blocks;
- Northwest Cascade has inspected all portable toilet units serviced by its Seattle area trucks to
  ensure that there is no current usage of 1,4-dichlorobenzene urinal blocks;
- Northwest Cascade has power-washed and cleaned the insides of all route service truck tanks to remove any potential residual build-up of 1,4-dichlorobenzene that may have adhered to the sidewalls of those tanks;
- 4) Northwest Cascade has replaced the soft vinyl urinal tubes on specific models of portable toilets. On occasion, this particular design feature has trapped discarded cigarette butts and other refuse. While Northwest Cascade has not found visible pieces of urinal blocks in these urinal tubes, Northwest Cascade has eliminated them as a precautionary measure; and
- 5) Northwest Cascade has re-routed all holding tank routes outside of the Seattle property to minimize the risk of contamination associated with any external sources of 1,4-dichlorobenzene (i.e., possible third party sources). Northwest Cascade will dispose of the waste from these routes in an approved and appropriate manner outside of any known combined sewer overflow (CSO) system.

In short, Northwest Cascade has removed all possible sources of 1,4-dichlorobenzene that are within its control. Northwest Cascade has also taken steps to minimize any possible contamination caused by external sources of 1,4-dichlorobenzene.

Northwest Cascade has a strong history of environmental compliance. In fact, this is the first time that Northwest Cascade's wastewater has exceeded permit levels at this property, and we have worked diligently to address this issue. We trust that this report, along with the attached test results showing compliance, meet or exceed all of the required actions identified in the October 6, 2011 Notice of Violation. If you would like any additional information, or believe that Northwest Cascade has not met its obligations under the Permit, please let me know. I can be reached at (253) 848-2371 or e-mail at martyd@nwcascade.com.

Sincerely,

Marty Diklich

President

Northwest Cascade, Inc.

Della

# **SPECTRA** Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

11/04/2011

Northwest Cascade Inc.

P.O. Box 73399 Puyallup, WA 98373 Project:

Sea HB Yard

Client ID:

Tank 6

Sample Matrix: Water/Oil

Date Sampled:

11/03/2011

Date Received: 11/03/2011

Spectra Project: 2011110106

Spectra Number: 1

Rush

**Analyte** 

Result

Units

Method

1,4-Dichlorobenzene

<12.5

µg/L

SW846 8260C

Sumpte	Récovery	Method
1,2-Dichlemothene-de	78	SW846 8260C
Disromofinoromethane	97	SW\$46 8260C
Tokstne-dä	93	SW846 8260C
4-Bromofiscrobenzese	95	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager n6/sgb

Page 1 of 1

# **SPECTRA** Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

November 4, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix Water EPA Method: 624/8260C Spectra Project: 2011110106

Date Analyzad: 11/3/2011 Units: ug/L

Applies to Spectra #'s: #1 Spiked Sample 2011100254-1

GCMS VOLATILE ORGANIC ANALYSIS Metrix Spike/ Matrix Spike Duplicate Results

COMPOUND	And the state of t	SAMPLE REBULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene (Reaults after dilution) "Cut of limits due to san	nple matrix effects.	<1 <1 <1 <1 <1	10.00 10.00 10.00 10.00 10.00	7.65 9.60 9.79 10.26 10.72	77 96 98 103 107	7.64 9.86 9.59 10.66 10.84	76 99 96 107 108	0 3 2 4
Surrogates	Dibromofluoromethane 1,2-Dichloroethane-d4 Taluene-d8 4-Bromofluorobenzene	·	MS 89 96 116 92	MSD 87 93 119 93	97 104 107 90	Method Blank 1,4-Dichlorobenzene		ug/L

Sheven G. Hibbs Laboratory Manager

# CHAIN of CUSTODY

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CONTACT: RON IN	pte N			80	II	T	T	F	Ī	П	T	i	T	T	T	П	1		T-	T	T	L	I 1				r T			<del></del>	
HONE: 253 GES. GG25 MAIL: POW PENAL COSCAR	FAX: 25) E-com R-Cam	7 6782. Preter or e-M	5 <i>99</i> FAX () AIL <i>B</i>	CONTAINER			9			æ	&G)	*	8280 CHLOR SOLVENTS	8270/625 SEMI YOA	¥		TOTAL METALS ROBAS	TOTAL METALS (SPECIFY)	TCLP METALS RCHA 8	TCLP METALS (SPECIFY)							8				
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SAMPLE ID	DATE SAMPLED	TIME	MATRIX	MUMBER	£	BITEX	eTEX.	NWTPH-G	WWTPH-Q <sub>x</sub>	1664.5	1684 H	REGUEZ 4 VOA	2580 C	827048	8270 PAHJPNA	6062/608 PCB	E	₩ 1	4	CIP		pH BOAD/BO46	TX/TOX/EOX	TURBIOTY	FLASH POINT	200	SOUDS (SPECIFY)				
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**NWC 001292** 

CC. TomR, Marty, TimP



# **NW CASCADE**

OCT 13 2011

# Wastewater Treatment Division Industrial Waste Program Department of Natural Resources and Parks 130 Nickeyson Street Suite 200

130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

October 6, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup,WA 98373

#### NOTICE OF VIOLATION – 1,4 DICHLOROBENZENE EXCEEDENCE

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade, Inc. - Seattle exceeds the organic chemical screening level for 1,4-dichlorobenzene. The results of the sample(s) taken on September 14, 2011 are enclosed.

According to <u>Special Condition B.</u> of your King County Industrial Waste Discharge Authorization, within 30 days from the receipt of this letter, Northwest Cascade, Inc. - Seattle shall:

- 1. Collect a sample.
- 2. Analyze the sample for the parameters in violation.
- 3. Submit the results to King County.
- 4. Submit a report:
  - a. explaining the cause of the violation;
  - b. explaining the corrective action(s) taken to ensure a return to compliance;
  - c. describing the steps you have taken to research, identify, and correct the violation(s);
  - d. describing the procedural and equipment revisions you have made, or propose to make, to correct the violation(s) and prevent recurrence.

If you fail to file the written report within five (5) business days from the report due date, you shall incur a penalty in the amount of one hundred dollars (\$100) for each succeeding work day (Monday through Friday) until the report is filed with the King County Industrial Waste Program or until the total fine has reached five hundred dollars (\$500).

Ron Inman October 6, 2011 Page 2

King County will review your permit history, the results of the additional sampling, and your written report, and then determine the next step for this enforcement action.

If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford Investigator

Industrial Waste Program

Enclosure(s)

cc: Julie Howell, Seattle Public Utilities

Field Measurements

Site #

A45341 - clean-out from solids separator

Sample Date Sample #

14-Sep-2011 L54130-2

Grab

Discharge Rate

NA

Sample Code

Time Span

NA Hour(s)

Start Time

1520

	1			
Parameters	CAS	Concentration	Units	Status
nH Field		0.00	011	A 1:
pri, rou	į	8.89	5U .	Compliance

Mass Load	Units		Status	
NA		j	NA	

Organics - VOA

Site #

A45341 - clean-out from solids separator

Sample Date

14-Sep-2011

Sample # Sample Code

L54130-3

Grab

**Discharge Rate** 

NA

Time Span

Hour(s)

Start Time

NA 1520

Parameters	CAS	Concentration	Units	Status
1,4-Dichlorobenzene	106-46-7	60.1	UG/L	NOV

Mass Lo	ad	Units	Stat	us	
	NA		NA		

Surcharge

A45341 - clean-out from solids separator

Sample Date

14-Sep-2011

Sample #

L54130-1

Sample Code

Grab

Discharge Rate

Time Span

**Start Time** 

NA

1520

	<del></del>			
Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Demand	1	9690	MG/L	NA
Total Suspended Solids		15400	MG/L	NA
				A

M	ass Load	Units	Status
	NA	:	NA
	NA		NA

NA

Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. As contamination observed; E=Estimated value; TA=Text information available which qualifies data.



# Industrial Waste Program Appeal Procedure from King County Code 28.84.100

This procedure applies to the action it accompanies:

The following provisions shall govern appeals from decisions of the director related to permits, discharge authorizations, violations, and penalties under King County Code 28.84.050 and 28.84.060.

- A. Any person allegedly aggrieved by any such a decision of the director shall, before filing any appeal with the King County hearing examiner, request that the director reconsider the decision. The request must be made within 15 calendar days of the date of the decision. The request shall state the decision to be reconsidered (appealed), the grounds for reconsideration (appeal), and the relief being sought. The director shall promptly issue a final decision, which shall be appealable only as provided herein.
- B. Within 15 calendar days of the date of issuance of the director's final decision, the person allegedly aggrieved may file a written appeal statement with the King County hearing examiner. The appeal shall state the decision being appealed and the grounds for appeal.
- C. The examiner shall hear the appeal, determine whether the decision of the director was consistent with King County Code 28.84.050 or 28.84.060, as applicable, of this chapter and rules and regulations promulgated by the director, and promptly issue a final decision under King County Code 20.24.080.
- D. Appeals of the examiner's final decision shall be to the superior court or the State Pollution Control Hearings Board, as provided by law.

Note: Any request for reconsideration or appeal is deemed filed with the agency upon actual receipt of the request in our offices. This must occur within 15 calendar days as noted above.

Requests for reconsideration

should be sent to:

Pam Elardo

**Division Director** 

King County Wastewater Treatment Division

201 S. Jackson Street, Suite 500

Seattle, WA 98104

A copy of the request for

reconsideration should be sent to:

Despina Strong

Program Manager

King County Industrial Waste Program

130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

rev. Oct. 2010

orig to Ron copy to!
Tom R
Marty



Wastewater Treatment Division Industrial Waste Program Department of Natural Resources and Parks 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

NW CASCADE

MAY 27 2011

May 24, 2011

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that the wastewater from Northwest Cascade Inc. - Seattle exceeds the King County Organic Compound Screening Level for 1,4-Dichlorobenzene. Because the results are within the accuracy range of the testing procedure, King County will not proceed with further action at this time. The results of the sample(s) taken on May 5, 2011, are enclosed.

If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford

Compliance Investigator

#### **Field Measurements**

Site #

A45341 - clean-out from solids separator

Sample Date

05-May-2011

L53202-2

Discharge Rate

NA

Sample #

Time Span

NA Hour(s)

Sample Code

Grab

**Start Time** 

1525

for all	 <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>			
Parameters	CAS	Concentration	Units	Status
pH, Field		9.06	SU	Compliance

Mass Load	Units	Status
NA		NA

#### Organics - VOA

Site #

A45341 - clean-out from solids separator

Sample Date

05-May-2011

Discharge Rate

NA

Sample #

L53202-3

Time Span

NA

Sample Code

Grab

Start Time

1525

Parameters	CAS	Concentration	)	Units	Status
1,4-Dichlorobenzene	106-46-7	<rdl< td=""><td>29</td><td>UG/L</td><td>NOV_NO_ACTI</td></rdl<>	29	UG/L	NOV_NO_ACTI

Mass	Load	Units	Status		-
	NA		NA	******	-

NA

#### Surcharge

A45341 - clean-out from solids separator

Sample Date Sample #

05-May-2011

L53202-1

**Discharge Rate** 

NA

Hour(s)

Sample Code

Grab

Time Span Start Time

1525

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Demand		6730		NA
Total Suspended Solids		15000	MG/L	NA
				***************************************

Mass Load	Units	Status
NA		NA
NA	,	NA

L=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.



**Wastewater Treatment Division** 

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

NW CASCADE

OCT 07 2011

October 5, 2011

Ron Inman Northwest Cascade, Inc.-Honey Buckets P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade, Inc. - Honey Buckets is in compliance with discharge limits. The results of the sample(s) taken on September 14, 2011 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3007.

Sincerely,

Dave Haberman

Investigator

**Industrial Waste Program** 

# Northwest Cascade, Inc. - Honey Buckets

#### **Field Measurements**

Site #

A31131 - manhole

Sample Date

14-Sep-2011

Sample # Sample Code L54123-2

Grab

Discharge Rate

Time Span NA

Start Time

1417

nH Field 9.50 OIL 9 III	Parameters	CAS Concentration	11.24		
PH, Field 8.52 SU Compliance NA NA	- ararrotoro		Units Status	Mass Load Units	Status
TO SO SOME THE SAME T	pH, Fleid	8.52	SU Compliance	NA NA	NA

### Surcharge

Site#

A31131 - manhole

Sample Date Sample #

Sample Code

14-Sep-2011

L54123-1

Grab

Discharge Rate

Time Span

NA

Start Time

1417

Parameters	CAS	Concentration	Units	Status	Mas
Biochemical Oxygen Demand	j	5420	MG/L	NA	
Total Suspended Solids		8840	MG/L	NA	
			******		· h

B.S.C.	1 - 1	0.8 "4		7
IVIASS	Load	Units	Status	ľ
:	NA		NA	
	NA		NA	1

NA

NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.



#### **Wastewater Treatment Division**

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

March 23, 2012

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade, Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on March 8, 2012 are enclosed.

NW CASCADE

MAR 2 8 2012

King County appreciates your compliance. If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford Investigator

Industrial Waste Program

#### **Field Measurements**

Site#

A45341 - clean-out from solids separator

Sample Date

08-Mar-2012

Sample # Sample Code L55230-2

Grab

**Discharge Rate** 

NA

NA

NA

Time Span

NA Hour(s)

**Start Time** 

1145

			noveterovannovannovannovannovannovannovannovan		· · · · · · · · · · · · · · · · · · ·		
Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
pH, Field		8.61	SU	Compliance	NA		NA

#### Organics - VOA

Site#

A45341 - clean-out from solids separator

Sample Date Sample #

Sample Code

08-Mar-2012

L55230-3

Grab

Discharge Rate

Time Span

NA

**Start Time** 

1145

Parameters	CAS	Concentration	Units	Status	Mass	s Load	Units	Status
1,4-Dichlorobenzene	106-46-7	<rdl 1<="" td=""><td>12 UG/L</td><td>Compliance</td><td></td><td>NA</td><td></td><td>NA</td></rdl>	12 UG/L	Compliance		NA		NA

## Surcharge

Site #

A45341 - clean-out from solids separator

Sample Date Sample #

Sample Code

08-Mar-2012

L55230-1

Grab

**Discharge Rate** 

Time Span NA Hour(s)

Start Time

1145

Parameters	CAS	Concentration	Units	Status	Mass Load	Units Status	
Biochemical Oxygen Deman		6700	MG/L	NA	NA	NA	
Total Suspended Solids		2040	MG/L	NA	NA	NA	

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.



# NW CASCADE

AUG 0 9 2012

Wastewater Treatment Division
Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
206-263-3000 Fax 206-263-3001

TTY Relay: 711

August 3, 2012

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade, Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on July 16, 2012 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford Investigator

Industrial Waste Program

#### **Field Measurements**

Site #

A45341 - clean-out from solids separator

Sample Date Sample # Sample Code 16-Jul-2012

L56084-2

Grab

**Discharge Rate** 

NA

Time Span Start Time

NA 1411

Parameters	CAS	Concentration	Units
pH, Field		8.	6 SU

Status	
Compliance	

Mass	Load	Units	Sta	tus	
	NA		NA		······································

NA

#### Organics - VOA

Site#

A45341 - clean-out from solids separator

Sample Date Sample #

Sample Code

16-Jul-2012

L56084-3

Grab

Discharge Rate

Time Span NA

**Start Time** 

1411

		*			· paragraphic control of the control		
Parameters	CAS	Concentration	Units	Status	Mass Load	Units Status	
1,4-Dichlorobenzene	106-46-7	<mdl< th=""><th>ug/L</th><th>Compliance</th><th>NA</th><th>NA NA</th><th></th></mdl<>	ug/L	Compliance	NA	NA NA	

#### Surcharge

Site #

A45341 - clean-out from solids separator

Sample Date Sample #

16-Jul-2012

L56084-1

Sample Code

Grab

**Discharge Rate** 

Time Span

NA

**Start Time** 1411

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Deman		10400	mg/L	NA
Total Suspended Solids		16400	mg/L	NA
				· · · · · · · · · · · · · · · · · · ·

	Mass Loa	ad Unit	s St	atus
		NA	N/	1
11111		NA		1

NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data; SGT=Nonpolar Oil Result, Silica Gel Treated.





#### **Wastewater Treatment Division**

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
206-263-3000
206-263-3001 Fax

October 21, 2003

J.R. Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup,WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc.-Seattle is in compliance with discharge limits. The results of the sample(s) taken on September 24<sup>th</sup>, and 25<sup>th</sup>, 2003 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at (206) 263-3007.

Sincerely,

Dave Haberman Investigator Industrial Waste Program

#### **Field Measurements**

Site#

A45341 - sample cleanout after meter

Sample Date

Sample Code

24-Sep-2003

Sample #

Composite

L29741-1

Discharge Rate 4300 GPD

Time Span

24 Hour(s)

Start Time

915

Parameters	Concentration	Units	Status	Mass Load U	Jnits Status
Discharge Rate	.0043	MGD	Compliance	NA	NA NA

Site #

A45341 - sample cleanout after meter

Sample Date Sample #

25-Sep-2003 L29742-1

Sample Code

Composite

Discharge Rate 5535 GPD Time Span

24 Hour(s)

**Start Time** 

1000

Parameters	Concentration	Units	Status	Mass Load U	Inits Status
Discharge Rate	.005535	MGD	Compliance	NA	NA

Site #

A45341 - sample cleanout after meter

Sample Date Sample # Sample Code 24-Sep-2003

L29743-1 Grab

Discharge Rate NA

Time Span NA Start Time 920

Parameters	Concentration	Units	Status
pH, Field	9.1	PH	Compliance

Second cont	N N 2.0	A	
Mass Load	units	Status	
			,,,,,
NIA		NIA	
147		147-4	

Status NA

Site #

A45341 - sample cleanout after meter

Sample Date Sample #

Sample Code

25-Sep-2003 L29744-1

Grab

Discharge Rate NA

Time Span Start Time

NA 1010

Parameters	Concentration	Units	Status	Mass Load Units
pH, Field	8.9	PH	Compliance	NA NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

#### Surcharge

Site #

A45341 - sample cleanout after meter

Sample Date

Sample Code

24-Sep-2003

Sample #

L29740-2

Grab

Time Span **Start Time** 

Discharge Rate NA

NA 920

Parameters			Units	Status
Biochemical Oxy	gen Demand	8050	MG/L	NA
Total Suspended	Solids	8450	MG/L	NA

Mass Load U	nits	S	ta	itt	JS				mmm
NA		N	A						
NA		N	A			******	•	**********	monio

Site #

A45341 - sample cleanout after meter

Sample Date

25-Sep-2003

Sample # Sample Code L29740-3

Grab

Discharge Rate NA Time Span

NA

Start Time

1010

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	9090	MG/L	NA
Total Suspended Solids	8650	MG/L	NA

	Mass	Load	Units	Status	
		NA		NA	
1		NA		NA	

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.



**Wastewater Treatment Division** 

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

206-263-3000 206-263-3001 Fax NW CASCADE
SEP 13 2004
RECEIVED

September 9, 2004

J.R. Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc.-Seattle is in compliance with discharge limits. The results of the sample(s) taken on August 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>, 2004 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at (206) 263-3007.

Sincerely,

Dave Haberman Investigator Industrial Waste Program

#### **Field Measurements**

Site#

A45341 - sample cleanout after meter

Sample Date

Sample Code

10-Aug-2004

Sample #

L32822-1

Grab

Discharge Rate NA

Time Span

NA

Start Time

1049

Parameters	Concentration	Units	Status	Mass Load	Units Status
pH, Field	8,71	PH	Compliance	NA	NA ·

Site #

A45341 - sample cleanout after meter

Sample Date Sample #

Sample Code

11-Aug-2004

L32822-2

Grab

Discharge Rate NA Time Span

NA

Start Time

937

Parameters	Concentration	Units	Status	Mass Load Units	Status
pH, Field	8.79	PH	Compliance	NA	NA
	 garakkinanganan kindak pinananan Aldinanaka Jananan dilitaran kara		alemania de la compania de la compa	 	

Site#

A45341 - sample cleanout after meter

Sample Date Sample #

12-Aug-2004

L32822-3

Sample Code Grab Discharge Rate NA

Time Span Start Time

NA 1016

Parameters	Concentration Units	Status	Mass Load Units Status
pH, Field	8.79 PH	Compliance	NA NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data Judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

#### Surcharge

Units

MG/L

MG/L

Site #

A45341 - sample cleanout after meter

Sample Date

10-Aug-2004

Sample #

L32823-1

Sample Code

**Parameters** 

Biochemical Oxygen Demand

Total Suspended Solids

Grab

Status

NA

NA

Discharge Rate NA

Time Span **Start Time** 

1049

Mass Load Units	Status
NA	
NΔ	NΔ

Site#

A45341 - sample cleanout after meter

Ε

Concentration

9470

7790

Sample Date

11-Aug-2004

Sample # Sample Code L32823-2

Grab

Discharge Rate NA

Time Span

NA

**Start Time** 

937

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	4600	MG/L	NA
Total Suspended Solids	E 4470	MG/L	NA

Mass Load Units Status NA NA NA NA

Site #

A45341 - sample cleanout after meter

Sample Date

12-Aug-2004

Sample # Sample Code

L32823-3

Grab

Discharge Rate NA

Time Span

NA

Start Time

1016

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	5350	MG/L	NA
Total Suspended Solids	E 8450	MG/L	NA

Mass	Load	Units	Status
	NA		NA
	NA		NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.



# NW CASCADE OCT 26 2005 RECEIVED

**Wastewater Treatment Division** 

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

206-263-3000 206-263-3001 Fax

October 19, 2005

J.R. Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc.-Seattle is in compliance with discharge limits. The results of the sample(s) taken on September 13<sup>th</sup>, 15<sup>th</sup>, 2005 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3007.

Sincerely,

Dave Haberman Investigator Industrial Waste Program

#### **Field Measurements**

Units

SU

Units

SU

Units

MG/L

MG/L

NA

NA

Status

Status

Compliance

Compliance

Site#

A45341 - sample cleanout after meter

Sample Date

Sample Code

13-Sep-2005

Sample #

pH, Field

L36822-1

Grab

Discharge Rate NA

Time Span

Start Time

NA 800

NA

Parameters	***************************************	Co	ncentration

9

**Mass Load** 

Site#

A45341 - sample cleanout after meter

Concentration

8.87

7890

11800

Sample Date

Sample # Sample Code

**Parameters** 

pH, Field

L36822-3

15-Sep-2005

Grab

Discharge Rate NA Time Span

NA

Start Time

820

Mass Load Units Status NA

Units

Status

NA

# Surcharge

Site #

A45341 - sample cleanout after meter

Sample Date

13-Sep-2005 L36823-1

Sample # Sample Code

Biochemical Oxygen Demand

Total Suspended Solids

Grab

Discharge Rate NA

Time Span

NA 8

**Start Time** Status

Units **Mass Load** Status NA NA NA NA

Site#

A45341 - sample cleanout after meter

Concentration

Sample Date

**Parameters** 

15-Sep-2005 Sample #

Sample Code

L36823-3 Grab

Discharge Rate NA NA

Time Span

Start Time 8.2

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	17700	MG/L	NA
Total Suspended Solids	23200	MG/L	NA

Mass Load Units	Status
NA	NA
NA	NA

<sup>&</sup>lt;MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.



# NW CASCADE

OCT 28 2005

RECEIVED

#### **Wastewater Treatment Division**

Industrial Waste Program Department of Natural Resources and Parks 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

206-263-3000 206-263-3001 Fax

October 26, 2005

J.R. Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc.-Seattle is in compliance with discharge limits. The results of the sample(s) taken on September 14, 2005 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3007.

Sincerely,

Dave Haberman Investigator Industrial Waste Program

#### **Field Measurements**

Site #

A45341 - sample cleanout after meter

Sample Date

14-Sep-2005

Sample #

L36822-2

Discharge Rate NA

Sample Code

Grab

Time Span Start Time

NA 8

Parameters	Concentration	Units	Status
pH, Field	8.9	SU	Compliance

Mass	Load	Units	Status	-
	NA		 NA	-

#### Surcharge

Site#

A45341 - sample cleanout after meter

Sample Date Sample #

14-Sep-2005

L36823-2

Discharge Rate NA

Time Span

NA

8

Sample Code

Grab

**Start Time** 

Units Status

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	9750	MG/L	NA
Total Suspended Solids	24600	MG/L	NA
			**************************************

Mass Load NA NA NA NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.





JUN 15,2006

# RECEIVED

#### **Wastewater Treatment Division**

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

206-263-3000 206-263-3001 Fax

June 14, 2006

J.R. Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc.-Seattle is in compliance with discharge limits. The results of the sample(s) taken on May 23<sup>rd</sup>, 24<sup>th</sup>, and 25<sup>th</sup>, 2006 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3007.

Sincerely,

Dave Haberman Investigator Industrial Waste Program

#### **Field Measurements**

Site #

A45341 - sample cleanout after meter

Sample Date

Sample Code

23-May-2006

Sample #

L39237-1

Grab

Discharge Rate NA

Time Span

NA

Start Time

1340

Parameters	Concentration	Units	Status
pH, Field	9.89	SÜ	Compliance

Mass Load	Units	Status	
NA		NA	

Site#

A45341 - sample cleanout after meter

**Sample Date** 

24-May-2006

Sample # Sample Code L39237-2

Grab

Discharge Rate NA Time Span

NA 1140

**Start Time** 

Parameters	Concentration Units Status
pH, Field	10 SU Compliance

1.	Mass Load	Units	Statu	us
	NA NA		NA	

Site#

A45341 - sample cleanout after meter

Sample Date

25-May-2006

Sample # Sample Code

Grab

L39237-3

Discharge Rate NA

Time Span **Start Time** 

NA 1300

Parameters	Concentration U	Jnits	Status
pH, Field	9.5	SU	Compliance

Mass Load	Units	Status	
NA	"``	NA	

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

#### Surcharge

Site#

A45341 - sample cleanout after meter

Sample Date

23-May-2006

Sample #

L39236-1

Sample Code

Grab

Discharge Rate NA

Time Span

NA

Start Time

1340

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	6060		NA
Total Suspended Solids	5450	MG/L	NA

Mass Load	Units	Status
NA		NA
NA		NA

Site #

A45341 - sample cleanout after meter

Sample Date

24-May-2006

Sample # Sample Code L39236-2

Grab

Discharge Rate NA Time Span

NA

**Start Time** 

1140

Parameters	Concentration	Units	Status	
Biochemical Oxygen Demand	8880	MG/L	NA	
Total Suspended Solids	11400	MG/L	NA	

	ad Unit	ts Status
	NA	NA
	NA	NA

Site#

A45341 - sample cleanout after meter

Sample Date

25-May-2006

Sample # Sample Code L39236-3

Grab

Discharge Rate NA

Time Span

**Start Time** 

NA 1300

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	11800	MG/L	NA
Total Suspended Solids	15800	MG/L	

Mass Load	Units	Status
NA	**********	NA
NA		NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

# Northwest Cascade, Inc. - Honey Buckets

#### **Field Measurements**

Site#

A31131 - manhole

Sample Date

08-May-2006

Sample # Sample Code L39017-1

Grab

Discharge Rate NA

Time Span

NA

Start Time

1445

Parameters	Concentration	Units	Status	Mass Load Unit	s Status
pH, Field	9.5	SU	Compliance	NA NA	NA

Site#

A31131 - manhole

Sample Date

09-May-2006

Sample # Sample Code

L39017-2 Grab

Discharge Rate NA Time Span

NA 1405

Start Time

Parameters	Concentration	Units	Juanus
pH, Field	9.87	SU	Compliance

Mass	Load	Units	Status
	NA		NA

Site#

A31131 - manhole

Sample Date

Sample Code

10-May-2006

Sample #

L39017-3

Grab

Discharge Rate NA

Time Span

NA

**Start Time** 

1315

Parameters	Concentration	Units	Status
pH, Field	9.68	SU	Compliance

Mass Load	Units		Status	
NA		-	NA	

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

# Northwest Cascade, Inc. - Honey Buckets

Surcharge

Site #

A31131 - manhole

Sample Date Sample #

08-May-2006 L39016-1

Sample Code

Grab

Discharge Rate NA

Time Span

NA

Start Time

1445

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	3450	MG/L	NA
Total Suspended Solids	4050	MG/L	NA

 Mass Load Units	Status
NA	NA
NA	NA

Site#

A31131 - manhole

Sample Date Sample #

09-May-2006 L39016-2

Sample Code

Grab

Time Span

Discharge Rate NA

NA

**Start Time** 

1405

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	10100	MG/L	NA
Total Suspended Solids	12700	MG/L	NA

Mass	Load	Units	Status
	NA		NA
	NA		NA

Site#

A31131 - manhole

Sample Date

10-May-2006 L39016-3

Sample # Sample Code

Grab

Discharge Rate NA

Time Span

NA

**Start Time** 

1315

Parameters	Concentration	Units	Status
Biochemical Oxygen Demand	6900	MG/L	NA
Total Suspended Solids	11600	MG/L	NA

Mass	Load	Units	Status	3
	NA		NA	
	NA		NA	



## WOODINVILLE WATER DISTRICT PO Box 1250

Customer Name Customer Number Billing Date Service Address

Northwest Cascade 27707-9 January 9, 2006 15919 WOOD/REDMOND RD

#### **ACCOUNT SUMMARY**

Previous Balance Payment Received Balance Forward **Current Charges** Account Balance

\$17,045.35 \$17,045.35CR \$0.00 \$26,131,70 \$26,131,70

Current Charges Due Date		January 24, 2006 Amount Due This Statement \$26,131.70			\$26,131.70	
Meter Number	Service Period From/To	No. of Days in Billing Period		Meter Re	eadings Present	Usage (ccf)
11111	10/27-12/27	61		8396	9791	1395

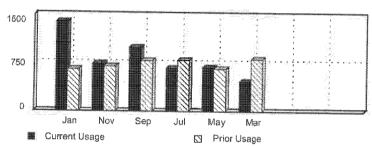
# Current Detail Utility Charges

Distrt Comm'l Sewer Only District Sewer Charge Metro Non-resid Swr Only Metro Surcharge

Current Charges

\$2,622.00 \$34.90 \$4,533.75 \$18,941.05 \$26,131.70

**Bi-Monthly Consumption in 100 Cubic Feet** 



#### \*\*\* NOTICE \*\*\*

#### Don't Freeze Up!

Winter weather is here. Avoid the inconvenience, discomfort and expense of dealing with broken pipes and water lines this winter. "Don't Freeze Up", a brochure outlining steps to help winterize your water system is available at our office or on the District website at www.woodinvillewater.com.

Sewer Charges:

This account is not billed for Water service by the District. Non-Residential sewer charges include a District fixed charge of \$34.90 plus \$1.90 per ccf for usage over 15 ccf plus a Metro Sewer Charge of \$3.25 per ccf for total water use. (1 ccf = 100 cubic feet = 748 gallons)

PLEASE APPROVE

JAN 16 2006

For more information or emergencies, call (425) 487-4100. After hours, remain on the line and follow instructions. Use enclosed envelope for remittance or mail to Woodinville Water District, PO Box 1250, Woodinville, WA 98072-1250. Please detach here and return this portion with your payment



17238 NE Woodinville-Duvall Rd PO Box 1250 Woodinville, WA 98072-1250 (425) 487-4100 Fax (425) 487-4188 Customer Number: 27707-9

Current Bill Due Date January 24, 2006

Amount Due

\$26,131.70

Service Address:

15919 WOOD/REDMOND RD

Please make check payable to Woodinville Water District

0017583

Northwest Cascade PO Box 73399 Puyallup WA 98373-0399 

**Woodinville Water District** P.O. Box 1250

0512 000277079 0002613170



**Wastewater Treatment Division** 

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

206-263-3000 206-263-3001 Fax

June 5, 2007

Rod

J.R. Inman

Northwest Cascade Inc.

P.O. Box 73399

Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade Inc.-Seattle is in compliance with discharge limits. The results of the samples taken on May 7, 8 and 9, 2007 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3007.

Sincerely,

Dave Haberman Investigator

Industrial Waste Program

Enclosure(s)

**NW CASCADE** 

JUN 08 2007

RECEIVED

#### **Field Measurements**

Site#

A45341 - sample cleanout after meter

Sample Date

2

07-May-2007

Sample # Sample Code L42687-1 Grab

**Discharge Rate** 

Time Span

NA

**Start Time** 

1240

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
pH, Field		9	SU	Compliance	N/	\	NA

Units

SU

Status

Compliance

Site#

A45341 - sample cleanout after meter

Sample Date

08-May-2007

Sample # Sample Code L42687-2

Grab

**Discharge Rate** 

NA

Time Span **Start Time** 

1300

	Mass Load	Units	Status	
September 1	NA		NA	

Site#

A45341 - sample cleanout after meter

Concentration

9.5

Sample Date Sample #

Sample Code

**Parameters** 

pH, Field

09-May-2007

CAS

L42687-3

Grab

**Discharge Rate** 

NA

NA

NA

NA

Time Span **Start Time** 1250

**Parameters** CAS Units Status Concentration pH, Field 9 SU Compliance

Mass Load	Units	Status
NA		NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

Surcharge

Site#

A45341 - sample cleanout after meter

Sample Date

07-May-2007

Sample # L42688-1

**Discharge Rate** 

Time Span NA

Sample Code

Grab

**Start Time** 1240

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Demand		7380	MG/L	NA
Total Suspended Solids		11900	MG/L	NA

	Mass Load	Units	Status
	NA		NA
1	NA NA		NA

NA

NA

NA

Site#

A45341 - sample cleanout after meter

Sample Date Sample #

Sample Code

08-May-2007

L42688-2

Grab

**Discharge Rate** 

Time Span

NA

**Start Time** 1300

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Demand		8150	MG/L	NA
Total Suspended Solids		9600	MG/L	
		****		

Mass	Load	Units	Status	Security
	NA		NA	
	NA		 NA	1

Site#

A45341 - sample cleanout after meter

Sample Date

09-May-2007

Sample # L42688-3 Sample Code

Grab

**Discharge Rate** 

Time Span

NA

**Start Time** 1250

**Parameters** CAS Concentration Units Status Biochemical Oxygen Demand 10900 MG/L NA Total Suspended Solids 19600 MG/L NA

Mass L	oad	Units	Status	
	NA		NA	
	NA		NA	

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.



**Wastewater Treatment Division**Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

NW CASCADE

FEB 21 2008 RECEIVED

February 20, 2008

J.R. Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade, Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on January 29<sup>th</sup>, 30<sup>th</sup>, and 31<sup>st</sup>, 2008 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3007.

Sincerely,

Dave Haberman Investigator Industrial Waste Program

#### **Field Measurements**

Site #

A45341 - sample cleanout after meter

Sample Date

29-Jan-2008

Sample #

L45019-4

Sample Code

Grab

Discharge Rate

Time Span

**Start Time** 

NA 1435

**Parameters** CAS Concentration Units Status Mass Load Units Status pH, Field 9.6 SU Compliance NA

Site#

A45341 - sample cleanout after meter

Sample Date

30-Jan-2008

Sample # Sample Code

L45019-5

Grab

**Discharge Rate** 

Time Span Start Time

NA

1630

**Parameters** CAS Concentration Units Status pH, Field SU Compliance

Mass Load Units Status NA NA

NA

NA

NA

Site#

A45341 - sample cleanout after meter

Sample Date

31-Jan-2008

L45019-6

Sample # Sample Code

Grab

Discharge Rate

Time Span

**Start Time** 

NA 1410

Parameters	CAS	Concentration	Units	Status	Mass Loa	d Units	Status
pH, Field		9.1	SU	Compliance		VA	NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

#### Surcharge

Site#

A45341 - sample cleanout after meter

Sample Date Sample #

Sample Code

29-Jan-2008

L45019-1

Grab

**Discharge Rate** 

NA

Time Span

Hour(s)

**Start Time** 

NA 1435

Parameters	CAS	Concent	ration	Units	Status
Biochemical Oxygen Demand		TA	4880	MG/L	NA
Total Suspended Solids			7200	MG/L	NA

Mass Load	Units	Status
NA	· ·	NA
NA		NA

Site #

A45341 - sample cleanout after meter

Sample Date

Sample Code

30-Jan-2008

Sample #

L45019-2

Grab

**Discharge Rate** 

NA

Time Span

Hour(s)

**Start Time** 

1630

NA

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Demand		6590	MG/L	NA
Total Suspended Solids		12700	MG/L	NA

100000	Mass Load	Units	Status
	NA		NA
	NA		NA

Site#

A45341 - sample cleanout after meter

Sample Date

31-Jan-2008

**Discharge Rate** 

NA

Sample #

L45019-3

Time Span

NA Hour(s)

Sample Code

Grab

Start Time

1410

					1
	9290	MG/L	NA		
	25000	MG/L	NA		
~		9290 25000	9290 MG/L 25000 MG/L	9290 MG/L NA 25000 MG/L NA	9290 MG/L NA 25000 MG/L NA

Mass	Load	Units		Status
	NA			NA
	NA	:	-	NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable. B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.



# NW CASCADE

MAR 02 2009

**Wastewater Treatment Division** 

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

February 24, 2009

J.R. Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade, Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on February 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup>, 2009 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3007.

Sincerely,

Dave Haberman Investigator

Industrial Waste Program

Du Il

### Northwest Cascade, Inc. - Seattle

#### **Field Measurements**

Site#

A45341 - sample cleanout after meter

Sample Date

Sample Code

03-Feb-2009

Sample #

L47354-4

Grab

**Discharge Rate** 

NA

Hour(s)

NA

Time Span **Start Time** 

1305

Parameters	CAS	Concentration	Units	Status	Mass Load Units	Status
pH, Field		8.9	SU	Compliance	NA	NA
					Her day of the second s	-3

Site#

A45341 - sample cleanout after meter

Sample Date

04-Feb-2009

Sample # Sample Code L47354-5 Grab

Discharge Rate

NA

Time Span

NA Hour(s)

Start Time

1425

Parameters	CAS	Concentration	Units	Status	N
pH, Field		8.9	SU	Compliance	

Mass Load Units Status NA NA

Site#

A45341 - sample cleanout after meter

Sample Date

05-Feb-2009

Sample # Sample Code L47354-6

Grab

**Discharge Rate** 

Time Span

NA Hour(s)

**Start Time** 

1335

Parameters	CAS Concentration	Units S	tatus
pH, Field	9.	1 SU C	ompliance

Mass Load	Units	Status
NA		NA

NA

<MDL =Less than Method Detection Limit; <RDL =Less than Reporting Detection Limit; NA =Not Applicable; H =Sample handling criteria compromised; R =Data judged unusable.</p> B/B2/B3 = Blank contamination observed; E = Estimated value; TA = Text information available which qualifies data; SGT = Silica Gel Treatment, Nonpolar Oil Result.

#### Northwest Cascade, Inc. - Seattle

#### Surcharge

Site #

A45341 - sample cleanout after meter

Sample Date

03-Feb-2009

Sample # Sample Code L47354-1

Grab

Discharge Rate

NA

Time Span

NA Hour(s) .

Start Time

1305

Parameters	CAS	Concentration	Units	Status	ħ
Biochemical Oxygen Deman		8060	MG/L	NA	_
Total Suspended Solids		17400	MG/L	NA	dijbe.

Mass Load	Units	Status
NA		NA
NA		NA

Site#

A45341 - sample cleanout after meter

Sample Date

04-Feb-2009

Sample # Sample Code L47354-2

Grab

**Discharge Rate** 

NA

Time Span

NA Hour(s)

**Start Time** 

1425

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Deman		8660	MG/L	NA
Total Suspended Solids		15400	MG/L	NA

- September	Mass Load	Units	Status	
-	NA		NA	
-	NA		NA	

Site#

A45341 - sample cleanout after meter

Sample Date

05-Feb-2009

Sample #

L47354-3

Sample Code

Grab-

**Discharge Rate** 

NA

Time Span

Hour(s) NA

**Start Time** 1335

Mass Load Units	Status
NA	NA
NA	NA

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Deman		8540	MG/L	NA
Total Suspended Solids		15200	MG/L	NA

<MDL =Less than Method Detection Limit; <RDL =Less than Reporting Detection Limit; NA =Not Applicable; H =Sample handling criteria compromised; R =Data judged unusable. B/B2/B3 = Blank contamination observed; E = Estimated value; TA = Text information available which qualifies data; SGT = Silica Ge! Treatment, Nonpolar Oil Result.



### NW CASCADE

APR 26 2010

#### **Wastewater Treatment Division**

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

April 22, 2010

J.R. Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade, Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on April 5<sup>th</sup>, 6<sup>th</sup>, and 7<sup>th</sup>, 2010 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford Investigator

Industrial Waste Program

Enclosure(s)

### Northwest Cascade, Inc. - Seattle

**Field Measurements** 

Site #

A45341 - sample cleanout after meter

Sample Date

05-Apr-2010

Sample #

Sample Code

L50555-4 Grab

Discharge Rate

Time Span

NA

**Start Time** 

1530

Parameters	CAS	Value	Units	Status
pH, Field		8.49	SU	Compliance

**Mass Load** Units Status NA NA

NA

Site #

A45341 - sample cleanout after meter

Sample Date Sample # Sample Code 06-Apr-2010

L50555-5 Grab

**Discharge Rate** 

Time Span

NA

Start Time

NA 1515

NA

Parameters	Value	Units	Status
pH, Field		8.86 SU	Compliance

Mass Load Units Status NA

Site #

A45341 - sample cleanout after meter

Sample Date Sample #

07-Apr-2010 L50555-6

Sample Code Grab **Discharge Rate** 

NA

Time Span **Start Time** 1415

Parameters	Value	Units	Status
pH, Field		SU	Compliance

Mass Load	Units	Status
NIA		A I A
INA.		NA
		Live State of the Control of the Con

#### Organics - VOA

Site #

A45341 - sample cleanout after meter

Sample Date

05-Apr-2010

Sample # Sample Code L50555-7 Grab

**Discharge Rate** 

Time Span **Start Time** 

NA

NA

1530

Parameters		Value	Units	Status
1,4-Dichlorobenzene	106-46-7	<mdl< th=""><th>UG/L</th><th>Compliance</th></mdl<>	UG/L	Compliance

-	Mass	Load	Units	Sta	atus
		NA		NA	

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

#### Northwest Cascade, Inc. - Seattle

#### Surcharge

Units

MG/L

MG/L

Site#

A45341 - sample cleanout after meter

Sample Date

05-Apr-2010

Sample #

L50555-1

CAS

Sample Code

**Parameters** 

Biochemical Oxygen Demand

Total Suspended Solids

Grab

Discharge Rate

Status

NA

NA

Time Span

NA

Start Time

1530

Mass Load	Units	Status	······································	- Personal
NA		NA		Accessed to
NA	,	NA		Acceptant.

NA

NA

NA

Site#

A45341 - sample cleanout after meter

Value

10500

13200

Sample Date

06-Apr-2010

Sample # Sample Code L50555-2

Grab

Discharge Rate

Time Span

NA

Start Time

1515

Parameters	CAS	Value	Units	Status	Mass Load Units	Status
Biochemical Oxygen Demand		14500	MG/L	NA	NA	NA
Total Suspended Solids		19700	MG/L	NA	NA	NA

Site#

A45341 - sample cleanout after meter

Sample Date

07-Apr-2010

Sample # Sample Code L50555-3

Grab

Discharge Rate

Time Span

NA

**Start Time** 

1415

Parameters	CAS	Value	Units	Status	
Biochemical Oxygen Demand		87	40 MG/L	NA	
Total Suspended Solids		142	00 MG/L	NA	
			Manager Committee of the Committee of th		 - Air

Mass	Load	Units	Status
	NA		NA
	NA		NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.



**Wastewater Treatment Division** 

Industrial Waste Program Department of Natural Resources and Parks

130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

206-263-3000 Fax 206-263-3001

TTY Relay: 711



September 24, 2009

CERTIFIED MAIL RETURN RECEIPT REQUESTED

J.R. Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Northwest Cascade Inc. (Seattle Facility) – Discharge of 1,4-Dichlorobenzene to the King County Sanitary Sewer System

Dear Mr. Inman:

The Northwest Cascade Inc. Seattle facility, located at 3414½ Second Avenue South, Seattle, Washington, lies within the area of sources identified for the East Waterway (EW) of the lower Duwamish River, which is a sediment cleanup site being managed jointly by the U.S. Environmental Protection Agency and the Washington State Department of Ecology. The EW has been identified as an Operable Unit of the Harbor Island Superfund Site.

The King County Wastewater Treatment Division is responsible for evaluating and controlling chemical sources that are tributary to the EW via King County combined sewer overflow outfalls. King County is conducting an initial evaluation of potential sources of sediment recontamination in the EW. The evaluation is specifically focused on EW sources that may be ongoing and that could potentially cause or contribute to future sediment recontamination within the waterway after cleanup actions are completed.

Existing data is being used to focus attention on certain chemicals on which there is scientific evidence that the potential for recontamination is greater than for other chemicals. The goal of the evaluation is to understand the potential for sources to cause future sediment recontamination after completion of remedial actions within the waterway.

One of the focus compounds that have been observed to contribute to sediment recontamination in the EW is 1,4-Dichlorobenzene (1,4-DCB). Results from King County's recent sampling



J.R. Inman September 24, 2009 Page 2

indicate that wastewater from Northwest Cascade exceeds the King County discharge warning level for 1,4-DCB. The results of the sample taken on April 27, 2009 are enclosed.

The King County Industrial Waste Program would like to meet with representatives of Northwest Cascade to discuss control of the release of 1,4-DCB to the King County sanitary sewer system. If you have any questions, please contact me at 206-263-3008 or by e-mail at jim.sifford@kingcounty.gov.

Sincerely,

Jim Sifford Investigator

Industrial Waste Program

Enclosure



Wastewater Treatment Division
Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
206-263-3000 Fax 206-263-3001
TTY Relay: 711



March 17, 2010

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Tom Rogers Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Response to Proposal to Eliminate the Release of 1,4-Dichlorobenzene to the Municipal Sewer System

Dear Mr. Rogers:

The King County Industrial Waste Program has reviewed Northwest Cascade's February 22, 2010, proposal to eliminate the release of 1,4-Dichlorobenzene to the municipal sewer system from the company's chemical toilet operation at 3414.5 Second Avenue South, Seattle, Washington. King County is pleased with the long-term objective of your proposal. However, in order to stop the continued release of this pollutant as quickly as possible in the near term, King County is requesting that Northwest Cascade examine the feasibility of other options that could be implemented before May 1, 2010, such as transfer of the unused supply to a different site that would allow the reduction of or discontinuation of the use of products containing 1,4-Dichlorobezene.

Once the products containing 1,4-Dichlorobenzene have been removed from the waste stream, Northwest Cascade will need to clean the bar screen and solids separation tank of any residual waste containing 1,4-Dichlorobenzene. This should be completed no later than May 31, 2010. Following that step, please confirm the removal of 1,4-Dichlorobenzene from the waste stream by sending King County Industrial Waste the results of an analysis of the effluent for Total Toxic Organics (TTO) as defined in 40 CFR 413.02 or 433.11. This analysis must be performed by a laboratory accredited by the Washington State Department of Ecology for each parameter tested, using procedures approved by 40 CFR 136.

Please note that General Condition No. 3 of Wastewater Discharge Authorization No. 4008-02 states that any facility changes which will result in a change in the character of the pollutants discharged to the municipal sewer system must be reported to the King County Industrial

Tom Rogers March 17, 2010 Page 2

Waste Program prior to the change. In the future, please submit the Material Safety Data Sheet (MSDS) for any new products proposed for use by Northwest Cascade, which will be discharged to the King County municipal sewer system. No changes can be made until the product has been approved by King County.

Finally, data from the analysis of in-line sediment samples collected from the combined sewer line downstream of Northwest Cascade, at 3414.5 Second Avenue South, indicate that there are sediments in the combined sewer which represent an ongoing source of pollution of 1,4-Dichlorobenzene. As long as this pollution source remains within the combined sewer line, there remains a continuing risk for release of this chemical to waters and sediments of the East Waterway. King County would like to meet with representatives of Northwest Cascade at your earliest convenience to discuss the removal of these contaminated sediments from the municipal sewer system. The approximate length of combined sewer line is 2,500 feet and the diameter of the sewer pipe ranges from 12 to 36 inches.

If you have any questions, please call me at 206-263-3008 or e-mail me at jim.sifford@kingcounty.gov. Thank you for helping to support our mission to protect public health and enhance the environment.

Sincerely,

Jim Sifford

Compliance Investigator Industrial Waste Program

cc: Ron Inman, Northwest Cascade, Inc.

Bill Blakney, King County Prosecuting Attorney Office Greg Bush, King County Wastewater Treatment Division Jeff Stern, King County Wastewater Treatment Division Despina Strong, King County Industrial Waste Program Patricia Magnuson, King County Industrial Waste Program Bruce Tiffany, King County Industrial Waste Program

Debra Williston, King County Water and Land Resources Division



April 1, 2010

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Jim Sifford King County Wastewater Treatment Division Industrial Waste Program 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

Dear Mr. Sifford,

I am writing in response to your letter to Northwest Cascade dated March 17, 2010. Our Management team has discussed your requests and offer the following comments.

Although we are working diligently to exhaust our current supply of deodorizing blocks containing 1,4- Dichlorobenzene, it still appears that May 1, 2010 is our targeted date of removing this product from our operational process. At that time we will clean our site receiving tank. We will then provide a subsequent sample per your stated requirements to confirm the elimination of this product. Once a different deodorizing product is chosen we will submit a Material Safety Data Sheet for your approval prior to its use.

Finally we would be happy to meet with you regarding your and our thoughts on how Northwest Cascade may be able to assist in cleaning your line that has been collecting sediments for many years before our occupancy and contribution to this on-going issue.

Again, Thank you for your continued cooperation in working with Northwest Cascade on this matter.

Sincerely,

Tom Rogers

Northwest Cascade, Inc.

TR/jp

Ron-FYI
orig to Tom R
copy to Marty

NW CASCADE



Wastewater Treatment Division
Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
206-263-3000 Fax 206-263-3001
TTY Relay: 711

OCT 2.0 2010

October 18, 2010

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Tom Rogers Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Removal of Contaminated Sediment from the Municipal Sewer System

Dear Mr. Rogers:

I would like to thank you and Ron Inman for meeting with Despina Strong, Arnaud Girard, and me on September 28, 2010. King County greatly appreciates the effort Northwest Cascade has made to eliminate the release of 1,4-Dichlorobenzene to the municipal sewer system from its chemical toilet operation located at 3414 ½ Second Avenue South, Seattle, Washington.

As King County continues to evaluate and control chemical sources tributary to the East Waterway via the County's combined sewer overflow outfalls, we are constantly looking at sources that may be ongoing that could potentially cause or contribute to future sediment recontamination within the waterway after cleanup actions are completed.

Data from the analysis of in-line sediment samples collected from the combined sewer line downstream of Northwest Cascade indicate that there are sediments in the combined sewer which represent an ongoing source of pollution of 1,4-Dichlorobenzene. As long as this pollution source remains within the combined sewer line, there remains a continuing risk for release of this chemical to waters and sediments of the East Waterway. King County is now requesting that within six weeks from receipt of this letter, Northwest Cascade remove these contaminated sediments from the municipal sewer system.

In-line sediment will need to be removed from the portion of combined sewer line located in South Hinds Street between East Marginal Way South and Second Avenue South and the portion of combined sewer line located in East Marginal Way South between South Hinds Street and South Hanford Street. The approximate length of these combined sewer lines is 2,500 feet. The diameter of this sewer pipe ranges from 12 inches (upstream) to 36 inches

Tom Rogers October 18, 2010 Page 2

(downstream). Because these combined sewer lines are owned and operated by City of Seattle Public Utilities, representatives of Northwest Cascade must contact operations staff from Seattle Public Utilities to determine the requirements for completion of this project. Please contact Beth Schmoyer at Seattle Public Utilities at 206-386-1199 or e-mail her at beth.schmoyer@seattle.gov.

If you have any questions about the requirements in this letter, please call me at 206-263-3008 or e-mail me at jim.sifford@kingcounty.gov. Thank you for helping to support our mission to protect public health and enhance the environment.

Sincerely,

Jim Sifford

Compliance Investigator

cc: J.R. Inman, Northwest Cascade, Inc.

Beth Schmoyer, Seattle Public Utilities

Despina Strong, King County Industrial Waste Program Arnaud Girard, King County Industrial Waste Program



NW CASCADE

Wastewater Treatment Division
Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
206-263-3000 Fax 206-263-3001
TTY Relay: 711

January 13, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Tom Rogers Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

No Further Action Required – Response to Remove Contaminated Sediment from the Municipal Sewer System

Dear Mr. Rogers:

King County appreciates the effort Northwest Cascade has made to eliminate the release of 1,4-Dichlorobenzene to the municipal sewer system from your chemical toilet operation located at 3414½ Second Avenue South, Seattle, Washington. The operational changes performed by Northwest Cascade, including discontinuation of the use of products containing 1,4-Dichlorobenzene, indicates that the source has been eliminated.

Upon receipt of your notification that the in-line sediment has been removed from the portion of combined sewer line located in South Hinds Street between East Marginal Way South and Second Avenue South and the portion of combined sewer line located in East Marginal Way South between South Hinds Street and South Hanford Street, and that the sediment has been disposed of at an appropriate facility, King County will require no further action be taken by Northwest Cascade in this matter.

These combined sewer lines are owned and operated by the City of Seattle. Representatives of Northwest Cascade must contact operations staff at Seattle Public Utilities prior to starting this work, to determine what requirements the city may have for this type of operation. Please call Beth Schmoyer of Seattle Public Utilities at 206-386-1199 or e-mail her at beth.schmoyer@seattle.gov.

Tom Rogers January 13, 2011 Page 2

If you have any questions about this letter, please call me at 206-263-3008 or e-mail me at jim.sifford@kingcounty.gov. Thank you for helping to support our mission to protect public health and enhance the environment.

Sincerely,

Jim Sifford

Compliance Investigator

cc:

J.R. Inman, Northwest Cascade Inc.

Beth Schmoyer, Seattle Public Utilities

Bill Blakney, King County Prosecuting Attorney Office Despina Strong, King County Industrial Waste Program Arnaud Girard, King County Industrial Waste Program

origto Ron copyto:

Marti
J.R.



**Wastewater Treatment Division** 

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

NW CASCADE

MAY 27 2011

May 24, 2011

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that the wastewater from Northwest Cascade Inc. - Seattle exceeds the King County Organic Compound Screening Level for 1,4-Dichlorobenzene. Because the results are within the accuracy range of the testing procedure, King County will not proceed with further action at this time. The results of the sample(s) taken on May 5, 2011, are enclosed.

If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford

Compliance Investigator

Enclosures

#### Northwest Cascade, Inc. - Seattle

#### **Field Measurements**

Site #

A45341 - clean-out from solids separator

Sample Date

Sample #

L53202-2

05-May-2011

**Discharge Rate** 

NA

Time Span

NA Hour(s)

Sample Code

Grab

Start Time

1525

Parameters	CAS	Concentration	Units	Status
pH, Field		9.06	SU	Compliance

Mass	Load	Units	80	Status
	NA		1	VA

#### Organics - VOA

Site #

A45341 - clean-out from solids separator

Sample Date

05-May-2011

Sample # Sample Code L53202-3

Grab

Discharge Rate

Time Span **Start Time** 

NA 1525

Parameters	CAS	Concentra	ation	Units	Status
1.4-Dichlorobenzene	106-46-7	kRDL .	29	UG/L	NOV NO ACTI

Contract Section	Mass Load	Units	Status	Acres de la constante de la co
Commence Section	NA		NA	

NA

#### Surcharge

Site #

A45341 - clean-out from solids separator

Sample Date

Sample Code

05-May-2011

Sample #

L53202-1

Grab

**Discharge Rate** 

NA

Time Span

Hour(s)

**Start Time** 

NA 1525

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Demand		6730	MG/L	NA
Total Suspended Solids		15000	MG/L	NA

Mass Load	Units	Status
NA		NA
NA		NA

<sup>&</sup>lt;MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.</p> B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

Company Name:	Northwest	Cascade	e, Inc	Seattle			
Site #	A45341		1	1			
Sample Date:	27-Apr-09	1.00	+	- t			
Sample Code:	Grab						
Sample #	L47908-1		-	1.			
	1	1:					
Parameters	Value	Units	Qual	MDL			
1.1.1-Trichloroethane	value	ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
1,1,2,2-Tetrachloroethane		respective and the second			4		
11.1.2-Trichloroethane		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
		ug/L	<mdl< td=""><td>20</td><td>-</td><td></td><td></td></mdl<>	20	-		
1,1,2-Trichloroethylene		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
1,1-Dichloroethane		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
1,1-Dichloroethylene		ug/L	<mdl< td=""><td>20</td><td>::- ::-</td><td></td><td></td></mdl<>	20	::- ::-		
1,2-Dibromoethane		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
1,2-Dichlorobenzene		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
1,2-Dichloroethane		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
1,2-Dichloropropane		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
1,3-Dichlorobenzene	į.	ug/L	<mdl< td=""><td>20</td><td>KC Disch</td><td>arge War</td><td>ning Level</td></mdl<>	20	KC Disch	arge War	ning Level
1,4-Dichlorobenzene	4570	ug/L		20	3500	ug/L	
1-Butanol, 2-methyl-, (S)-	273	ug/L	1:				
1-Butanol, 2-methyl-, aceta	3422	ug/L					***************************************
1-Pentanol	348	ug/L					
2-Butanone (MEK)		ug/L	<mdl< td=""><td>100</td><td>k:</td><td></td><td></td></mdl<>	100	k:		
2-Chloroethylvinyl ether		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
2-Hexanone		ug/L	<mdl< td=""><td>100</td><td></td><td></td><td></td></mdl<>	100			
4-Methyl-2-Pentanone (MIBK)		ug/L	<mdl< td=""><td>100</td><td></td><td></td><td></td></mdl<>	100			
Acetic acid, methyl ester	71	ug/L	ZINDL	100			
Acetic acid, pentyl ester	3623	ug/L					
Acetone	190	ug/L	<rdl< td=""><td>50</td><td></td><td></td><td></td></rdl<>	50			
Acrolein	130	ug/L ug/L	<mdl< td=""><td>100</td><td></td><td></td><td></td></mdl<>	100			
Acrylonitrile				100			
Benzene		ug/L	<mdl< td=""><td></td><td></td><td></td><td></td></mdl<>				
Bromodichloromethane	<u> </u>	ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
		ug/L	<mdl< td=""><td>20</td><td></td><td>-</td><td></td></mdl<>	20		-	
Bromoform		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Bromomethane		ug/L	<mdl< td=""><td>100</td><td></td><td></td><td></td></mdl<>	100			
Butanoic acid, ethyl ester	5288	ug/L					
Butanoic acid, methyl ester	186	ug/L					
Carbon Disulfide		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Carbon Tetrachloride		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Chlorobenzene	1	ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Chlorodibromomethane		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Chloroethane		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Chloroform		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Chloromethane	58.2	ug/L		20			
Cis-1,3-Dichloropropene		ug/L	<mdl< td=""><td>20</td><td>***************************************</td><td></td><td></td></mdl<>	20	***************************************		
Ethanol	109	ug/L	1				
Ethyl Acetate	1408	ug/L					
Ethylbenzene		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Methane, thiobis-	74	ug/L					
Methyl-t-butyl Ether (MTBE)		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Methylene Chloride		ug/L	<mdl< td=""><td>100</td><td></td><td></td><td></td></mdl<>	100			
Propanoic acid, ethyl ester	706	ug/L	CIVICE	100			
Styrene Styrene		ug/L	-NADI	20			
Tetrachloroethylene			<mdl< td=""><td>4</td><td></td><td></td><td></td></mdl<>	4			
Toluene	-	ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Total Xylenes		ug/L	<mdl< td=""><td>20</td><td>·w</td><td></td><td></td></mdl<>	20	·w		
Trans-1,2-Dichloroethylene	1	ug/L	<mdl< td=""><td>20</td><td>***************************************</td><td></td><td></td></mdl<>	20	***************************************		
Trans-1,3-Dichloropropene	ļ	ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Trichlorofluoromethane	ļ	ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			
Vinyl Acetate		ug/L	<mdl< td=""><td>100</td><td></td><td></td><td></td></mdl<>	100			
Vinyl Chloride		ug/L	<mdl< td=""><td>20</td><td></td><td></td><td></td></mdl<>	20			

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12/11/2015

PO Box 73399

Northwest Cascade Inc.

Puyallup, WA 98373

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

Tank-1

Sample Matrix: Water

Date Sampled:

Date Received: 12/03/2015

12/03/2015

Spectra Project: 2015120115

Spectra Number: 1

Analyte 1,4-Dichlorobenzene

Result

Units

Method

<12.5

 $\mu g/L$ 

SW846 8260C

Surrogate	Recovery	Method
I,2-Dichloroethane-d4	97	SW846 8260C
Dibromofluoromethane	95	SW846 8260C
Toluene-d8	95	SW846 8260C
4-Bromofluorobenzene	102	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh



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December 11, 2015

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2015120115

Date Analyzed: 12/4/2015 Units: mg/L

Applies to Spectra #s: #1

Spiked Sample 2015120119-1

#### **GCMS VOLATILE ORGANIC ANALYSIS** Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	SAMPLE RESULT	SPIKE ÁMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene	<1	10.0	7.24	72	C 05		-
Benzene	<1	10.0	11.41	114	6.05	61	17.9
richloroethene	<1				7.95	80	35.7
Toluane		10.0	10.06	101	10.19	102	1.3
CONTROL OF THE PARTY OF THE PAR	3.72	10.0	13.09	94	13.11	94	0.2
Chlorobenzene	<1	10.0	9.70	97	9.73	97	0.3
(Results after dilution)						•	0.0
Surrogates		MS	NOD	1.47			
Dibromofluoromethane			MSD	MB	Method Blank		ug/L
		90	95	92	1,4-Dichlorobenze	ne	<1
1,2-Dichloroethane-d4		102	99	81			
Toluene-d8		87	84	102			
4-Bromofluorobenzene		104	109	96			

Steven G. Hibbs **Laboratory Manager** 

2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 SPECIAL INSTRUCTION 1.4 DichloriBenzene CHAIN OF CUSTODY

2015 2015

	www.spectra-lab.com info@spe	ectra-lab.com	Retu	rn S	Sam	ple	8:	Y	N		P	age		_	of_	_/	<u></u>		ST	A	ND	AF	RD	)	X		RU	ISH		7
	CLIENT: North West Cas		DDR	ESS		P	0		Bo	+		7	3	39	9	F	4	VA	IK	1	)	6	Jq		99	337	25	ADDI CH/	RESS	
	PROJECT: Seathe HB	Ard		Н	/DF							RGA					ETA			/						ER				
	CONTACT: ROW INMAN/	Tim Peterson																												
	SAMPLED BY: 6 reg Branc	drer									co.					2		2											1	
	PHONE: 253-405-662 FAX: 50 PHONE: 253-405-662 FAX: 50 PHONE: 253-405-662 FAX: 50	08-445-8327 Profer FAX			d			H			8260 CHLOR SOLVENTS	A			TOTAL METALS RCRA 8	TOTAL METALS (SPECIFY)	HA 8	TCLP METALS (SPECIFY)												
		M or e-MAIL			PHG			EM (1	Fog	8 8	R SOL	EMI V	AN	8	ALSR	ALS (6	LS RC	IS (SI		ξţ			5		ECIFY	l,				
	PURCHASE ORDER # PC-5		NWTPH-HCID		BTEX/NWTPH-G	NWTPH-G	NWTPH-Dx	1664 SGT-HEM (TPH)	1664 HEM (FOG)	8260/624 VOA	몽	8270-625 SEMI VOA	8270 PAH/PNA	8082/608 PCB	MET	MET	TCLP METALS RCRA 8	META		40/90	(XEO)	<u>≻LIG</u>	POL		S (SP					
	SAMPLE ID DATE SAMPLED	TIME MATRIX	N S	BTEX	BTE	NAT	E N	1664	1664	8260/	8260	8270-	8270	8082/	TOTAL	TOTA	TCLP	TOLP		PH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	BOD	SOLIDS (SPECIFY)					
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	Tracking #	RELINQUISHED BY		7.5					_				/	100	7781	*		(	~	ici.	CER	res		10		10		1	w	
	Custody Seals: Y N Intact: Y N	RECEIVED BY																												
	Cooler Temp Sample Temp 2 8	Payment Terms: Net 30 de attorney's fees and all othe	ays. Pa	st du	e ac	coun don n	nts si egar	ubje rdles	ct to 1 1 s of who	/2% other	per r sult	nonti is file	n inte	erest. (	Co.,	mer WA v	agre /enu	es to	pay :	all c	osts	of c	ollec	tion	inclu	ding r	easo	nable	1	

2221 Ross Way \* Tacoma, WA 98421 \* (253) 272-4850 \* Fax (253) 572-9838 \* www.spectra-lab.com

10/30/2015

P.O.#: Project: PC5

Seattle HB Yard

Client ID: Northwest Cascade Inc.

Tank 1

PO Box 73399

Sample Matrix: Wastewater

10/28/2015

Puyalhup, WA 98373

Date Sampled:

Date Received: 10/28/2015

Spectra Project: 2015100794

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

<12.5

μg/L

SW846 8260C

Scaroguie	Receivery	Method
1,2-Dichinopolinos-d4	112	SW#46 #260C
Discomplinocognethage	83	SW846 \$260C
Tolucus-dil	122	SW846 8260C
4-Bromofisconbamman	110	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager e6/egb

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October 30, 2015

Northwest Cancade inc. P.O. Box 73399 Puyellup, WA 96373

Sample Matrix: Water EPA Method: 624/8280C Spectre Project: 2015100794 Date Analyzed: 10/29/2015 Units: mg/L Applies to Spectra ffs; 1 Spiked Sample 2015100614-1

OCMS VOLATILE ORGANIC ANALYSIS Metrix Spille/ Metrix Spille Duplicate Regults

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD	RPD
1,1-Okhisrositiene Banzano		⋖1	10.0	11.49	115	8.85	90	24.0
Trichionadhana		<1	10.0	9.57	96	9.18	92	4.2
Tolume		<u>ৰ</u>	10.0	9.85	.90	9.27	93	6.1
		শা	10.0	10.51	106	10.12	101	3.8
Chlorobenzene (Results after dilution)		<1	10.0	10.84	105	10.11	101	4.2
<b>Surreque</b>			MS	MSD	ME	Method Blank		ug/L
A	Dibromofluoromethane		94	- 4	<b>B</b>	1,4-Dichlorobenza	and .	
	1,2-Dichioroethene-d4 Toluene-d8 4-Bransofluorobenzene		123 92 106	121 92 106	118 96 111	in \$ 18° , and distributions and distributions (Steel		

Staven G. Hibbs Laboratory Menager

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10

SPECIAL INSTRUCTIONS/COMMENTS:

1.4 DichloriBenzene

### **CHAIN OF CUSTODY**

2015100794

Return Samples: Y N STANDARD X RUSH **ADDRESS** CLIENT: Northwest agscarle ADDRESS: CHANGE PROJECT: Seaffle HB YArd **HYDROCARBONS ORGANICS METALS** OTHER CONTACT: RON INMAN SAMPLED BY: Greg Brandner TOTAL METALS (SPECIFY) TCLP METALS (SPECIFY) 8260 CHLOR SOLVENTS TOTAL METALS RCRA 8 TCLP METALS RCRA 8 1664 SGT-HEM (TPH) 8270-625 SEMI VOA SOLIDS (SPECIFY) BTEXNWTPH-G 1664 HEM (FOG) MATRIX NO MARKER OF O 8270 PAH/PNA NWTPH-HCID 8082/608 PCB 8260/624 VOA FLASH POINT PH 9040/9045 TX/TOX/EOX NWTPH-DX TURBIDITY NWTPH-G **PURCHASE ORDER #** 800 SAMPLE ID SAMPLED SAMPLED TANK I 6mB 2 10-28 5.15 LAB USE ONLY PRINTED NAME Shipped Via: Greg Brandner porthwestersons 1028 2:15 RELINQUISHED BY US Mail UPS Fed Ex Courier Client RECEIVED BY Cooler Box Envelope None **RELINQUISHED BY** Tracking # Custody Seals: Y. Intact: Y N RECEIVED BY Payment Terms: Net 30 days. Past due accounts subject to 1 1/2% per month interest. Customer agrees to pay all costs of collection including reconable Sample Temp. 2 1 Cooler attorney's fees and all other costs of collection regal of whether suit is filed in Pierce Co., WA venue. Spectra Laboratories, LLC

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04/05/2018

PO Box 73399

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

Truck C-749

Sample Matrix: Water

Date Sampled:

04/03/2018

Date Received: 04/03/2018

Spectra Project: 2018040058

Spectra Number: 1

Rush

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

Result

Units

Method

1,4-Dichlorobenzene

<25

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	104	SW846 8260C
Dibromofluoromethane	64	SW846 8260C
Toluene-d8	102	SW846 8260C
4-Bromofluorobenzene	117	SW846 8260C

**SPECTRA LABORATORIES** 

ooper, Laboratory Manager

2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com info@spectra-lab.com

SPECIAL I	NSTRUCTION	S/COMME	NTS:	#Tim	Per	ers.
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Ana D 1	Tim PE 4-Dic Samples:	blaro	hen?	loney Bu	ucket	com
Return	Samples:	YN	F	age	of_	

### **CHAIN OF CUSTODY**

2018040058

www.spectra-rao.com inno@spectra-ra	F	Retu			ples	3:	Y	N	-	Pa	age	_	1_	of			4	ST/	N	D	AF	₹D				RU	SH	R	(
CLIENT: Northwest Cascade	Inc. AD	DRE	SS:																							_	ADDRI	ESS	
PROJECT: Scattle 4B YARD					OC,	ARI	BOI	VS		OI	RG/	ANI	cs		ME	ΞTΑ	LS						C	THE	ER				
CONTACT: RON Imman																			1	1									П
SAMPLED BY:	RRS														C						Ц								
PHONE: 253405 6625 FAX: 808 445	8327 for FAX						Î		1	ENTS				RA 8	ECIE	8	CIFY												
e-MAIL: COMO NWCASCADE . Comore				ΰ			M (T	(i)	(2)	SOLV	NOV I	A		S RC	S (SP	S RCF	S (SP							CIFY)					
PURCHASE ORDER # PC-5		무		WTP	σ	+D×	GTHE	EM EM	200	HLOR	S SE	NH/PN	B PCE	METAI	WETAI	ETAL	ETAL(	100	79042	Щ М	È	POINT		(SPE					
SAMPLE ID DATE TIME SAMPLED SAMPLED	E MATRIX N	NWTPH-HCID	втех	BTEX/NWTPH-G	NWTPH-G	NWTPH-Dx	1664 SGT-HEM (TPH)	1664 HEM (FOG)	ACM NOW NOA	8260 CHLOR SOLVENTS	8270-625 SEMI VOA	8270 PAH/PNA	8082/608 PCB	TOTAL METALS RCRA 8	TOTAL METALS (SPECIFY)	TCLP METALS RCRA	TCLP METALS (SPECIFY)	0	FH 8040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	BOD	SOLIDS (SPECIFY)					
Toruh C-749 4-3-18 12:0						_			>			00	0		l les		-		1	=	-	£L.	00	S	+	+	+	H	
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	t Terms: Net 30 da						30	1 to 1	1/29	6 per	mont	th int	erest.	Custo	mer	agre	es to	pay a	all c	osts	of c	ollec	tion	incluc	griik	01	nable		

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01/04/2018

PO Box 73399

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

C-645

Sample Matrix:

Water

Date Sampled:

01/02/2018

Date Received:

01/02/2010

Date Receive

01/02/2018

Spectra Project:

2018010023

Spectra Number: 1

Rush

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

Result

Units

Method

1,4-Dichlorobenzene

<25

μg/L

SW846 8260C

Surrogate	Recovery	Method
4-Bromofluorobenzene	99	SW846 8260C

SPECTRA LABORATORIES

Jeffrey Cooper, Laboratory Manager

a6/jjb

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Please ema. Results	directly	to
Ron Inman		
1.4 Dichlonibenzene	-	

# **CHAIN OF CUSTODY**

2018010023

www.spectra-lab.com info@spectra-lab.com		Ret	urr	n Sa	amı	ole	s:	Y	N		Pa	age	-		01					ST	Al	VD	A	RD				RI	JS	H	X	1
CLIENT: NW Cacade Inc.	A	DDF	RES	SS:																										DRE		
PROJECT: Scattle HB yand				HY	DR	OC.	AR	BO	NS		OF	RG	ANI	CS			ME	TA	LS							OTH	IER				OIL.	
CONTACT: Ron Inman																																
SAMPLED BY: Alex Buthusien		ERS															3		(													
PHONE: 258 4056625AX:		MIA	1					(TPH)			ENTS	V				RA 8	ECIF	3A 8	ECIFY													
e-MAIL: Pon @ Nu cusaade, com or e-MAIL	NTRIX	02 0	9		BTEX/NWTPH-G			IEM (TF	FOG)	Y.	8260 CHLOR SOLVENTS	8270-625 SEMI VOA	NA N	80		TOTAL METALS RCRA 8	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)		15	V		5		SOLIDS (SPECIFY)						
PURCHASE ORDER # PC-5		BER	NWTPH-HCID		NWT.	SHG HG	NWTPH-Dx	1664 SGT-HEM	1664 HEM (FOG)	524 V	CHLO	625 SI	AH/P	308 PC		MET	MET	META	META		40/00	X/EO	DITY	PO		S (SP						
SAMPLE ID DATE TIME SAMPLED MA	TRIX		S S S S S S S S S S S S S S S S S S S	ВТЕХ	ВТЕХ	NWTPH-G	NAT	1664	1664	8260/624 VOA	8260 (	8270-	8270 PAH/PNA	8082/608 PCB		TOTAL	TOTAL	TCLP	TCLP		PH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	BOD	SOLID						
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NWC 001354

...Where experience matters

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11/03/2017 P.O.#:

Project: Seattle HB Yard
Client ID: C-653

Northwest Cascade Inc. Sample Matrix: Water

PO Box 73399 Date Sampled: 11/02/2017 Puyallup, WA 98373 Date Received: 11/02/2017

Spectra Project: 2017110050

Spectra Number: 1

Rush

PC-5

 Analyte
 Result
 Units
 Method

 1,4-Dichlorobenzene
 <25</td>
 μg/L
 SW846 8260C

Surrogate	Recovery	Method
4-Bromofluorobenzene	107	SW846 8260C

SPECTRA LABORATORIES

Jeth , Laboratory Manager

2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com info@spectra-lab.com

**NWC 001356** 

SPECIAL INSTRUCTIONS MMENTS:
Please email Results directly to
Ron Imman
14 Dichloribenzene

# **CHAIN OF CUSTODY**

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CONTACT: Ron Inna	2		1																									
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07/07/2017

PO Box 73399

P.O.#:

PC-5

Project:

Seattle Yard

Client ID:

Tank-1

Sample Matrix: Liquid

Date Sampled:

06/15/2017

Date Received: 06/15/2017

Spectra Project: 2017060459

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

Result

Units

Method

1,4-Dichlorobenzene

<25

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	87	SW846 8260C
Dibromofluoromethane	93	SW846 8260C
Toluene-d8	94	SW846 8260C
4-Bromofluorobenzene	99	SW846 8260C

SPECTRA LABORATORIES

Cooper, Laboratory Manager

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MENTS:

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**CHAIN OF CUSTODY** 

2017000455

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05/02/2017

PO Box 73399

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

Tank-1

Sample Matrix: Water

Date Sampled: 04/19/2017

Date Received: 04/19/2017

Spectra Project: 2017040622

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

Result

Units

Method

1,4-Dichlorobenzene

<25

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	89	SW846 8260C
Dibromofluoromethane	85	SW846 8260C
Toluene-d8	98	SW846 8260C
4-Bromofluorobenzene	90	SW846 8260C

SPECTRA LABORATORIES

Cooper, Laboratory Manager

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SPECIAL	INSTRUCTIONS	MMENTS:
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Return Samples: Y N

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**CHAIN OF CUSTODY** 

2017040622

STANDARD RUSH

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CONTACT: TIM PATOSPA	j																													
SAMPLED BY: Greg Brai	dre		ERS													1														
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e-MAIL: TIM PENNCOSCOLO	Prefer FA	X 📑	F CO!			φ±			F) M	OG)		SOLV	W VO	4	_		SRC	S (S	SRCF	(SP)						CIFY)				
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02/15/2017

PO Box 73399

Northwest Cascade Inc.

Puyallup, WA 98373

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

Tank 1

Sample Matrix: Wastewater

Date Sampled:

01/31/2017

Date Received: 01/31/2017

Spectra Project: 2017010795

Spectra Number: 1

Analyte	Result	<u>Units</u>	Method
1,4-Dichlorobenzene	<25	μg/L	SW846 8260C

Surrogate	Recovery	Method
1.2-Dichloroethane-d4	152	SW846 8260C
Dibromofluoromethane	150	SW846 8260C
Toluene-d8	105	SW846 8260C
4-Bromofluorobenzene	83	SW846 8260C

SPECTRA LABORATORIES

Cooper, Laboratory Manager a6/mkw

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J.H. DICHLORIBENZENE

**CHAIN OF CUSTODY** 

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01/13/2017

P.O.#:

PC-5

Project: Client ID: Seattle HB Yard

Northwest Cascade Inc.

Tank 1

PO Box 73399

Sample Matrix: Aqueous

Date Sampled:

12/28/2016

Puyallup, WA 98373 Date Received:

12/29/2016

Spectra Project: 2016120712

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

<25

μg/L

SW846 8260C

Surrogate	Recovery	Method					
1,2-Dichloroethane-d4	159	SW846 8260C					
Dibromofluoromethane	154	SW846 8260C					
Toluene-d8	88	SW846 8260C					
4-Bromofluorobenzene	90	SW846 8260C					

SPECTRA LABORATORIES

mey Cooper, Laboratory Manager

a6/jjb

# **CHAIN of CUSTODY**

## **SPECTRA** Laboratories

PAGE 7014120712 STANDARD

2221 Ross Way • Tao	coma, WA 984	421 •	(253) 272	2-4850	) •	F	ax (2	(53)	572-9	838	•	ww	w.sp	ectr	a-lab.	com			S	TAI	VD/	ARI	D	X			F	RUS	H	
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12/17/2016

Project:

Seattle HB Yard

Client ID:

C-653

Northwest Cascade Inc.

Sample Matrix:

Water

PO Box 73399

Date Sampled:

11/23/2016

Puyallup, WA 98373

Date Received:

11/23/2016

Spectra Project: 2016110691

Spectra Number: 1

Analyte

Result

\_Units

Method

1,4-Dichlorobenzene

<25

μg/L

SW846 8260C

Surrogate	% Recovery	Method
1,2-Dichloroethane-d4	110	SW846 8260C
Dibromofluoromethane	135	SW846 8260C
Toluene-d8	80	SW846 8260C
4-Bromofluorobenzene	89	SW846 8260C

SPECTRA LABORATORIES

Swe Hibbs, Laboratory Manager

a5/bjn

# CHAIN of CUSTODY

# SPECTRA Laboratories 2016110691

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11/15/2016

Northwest Cascade Inc.

PO Box 73399

Puyallup, WA 98373

Project:

Seattle HB Yard

Client ID:

C-653

Sample Matrix: Water

Date Sampled:

10/24/2016

Date Received: 10/24/2016

Spectra Project: 2016100797

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

<12.5

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	121	SW846 8260C
Dibromofluoromethane	146	SW846 8260C
Tolucno-d8	88	SW846 8260C
4-Bromofluorobenzene	74	SW846 8260C

SPECIRAL ABORATORIES

Steve Hibbs, Laboratory Manager

a6/jjb

## **CHAIN of CUSTODY**

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**NWC 001368** 



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09/23/2016

Northwest Cascade Inc.

Puyallup, WA 98373

PO Box 73399

P.O.#:

PC-5

Project:

Seattle Honey Bucket Yard

Client ID:

C-653

Sample Matrix: Water

Date Sampled:

09/16/2016

Date Received: 09/16/2016

Spectra Project: 2016090521

Spectra Number: 1

Analyte Result Units Method

1,4-Dichlorobenzene <12.5 μg/L SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	101	SW846 8260C
Dibromofluoromethane	116	SW846 8260C
Toluene-d8	87	SW846 8260C
4-Bromofluorobenzene	85	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

## **CHAIN of CUSTODY**

SPECTRA Labor	ratorie	S	1	ou	Let	HĪ	) ti	に	1								PAC	GE_				0	_				•
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NWC 001370

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7/5/2016

Northwest Cascade Inc. PO Box 73399

Puyallup, WA 98373

Project:

Seattle HB Yard

Client ID: Sample Matrix: Date Sampled:

Liquid 7/1/2016

Tank-1

Date Received:

7/1/2016

Spectra Project:

2016070017

Spectra Number:

**Analyte** 

1,4-Dichlorobenzene

Result <12.5

<u>Units</u>

Method

μg/L

SW846 8260C

Surrogate	Recovery	Method	Surrogate	Recovery	Method
4-Bromofluorobenzene	95	SW846 8260C	1,2-Dichloroethane-d4	119	SW846 8260C
Dibromofluoromethane	122	SW846 8260C	Toluene-d8	96	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

**CHAIN of CUSTODY** 

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#### SPECTRA Laboratories 2014010017 **PAGE** 2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com STANDARD RUSH CLIENT: NOrth West Cascade ADDRESS: PROJECT: Seaffly Hi3 YAVO **HYDROCARBONS ORGANICS** METALS OTHER CONTACT: Tim Defersion NUMBER OF CONTAINERS PHONE: 253-606-285 FAX: 1-866-611-1577 TOTAL METALS (SPECIFY 8280 CHLOR SOLVENTS TCLP METALS (SPECIFY) TOTAL METALS RCHAB TCLP METALS RCRA 8 8270/625 SEMI VOA e-MAIL: TIM P @ NW EGSAGGE, COM OF B-MAIL [] (SPECIFY) 1664 HEM (O&G) 1664 SGT-HEM 8260/624 VOA 8082/608 PCB FLASH POINT **PURCHASE ORDER #:** NWTPH-G TX/TOX/EOX SOLIDS ( SAMPLED SAMPLED MATRIX SAMPLE ID TANK-/ KTF-5 5:30 6MB 2 10 SPECIAL INSTRUCTIONS/COMMENTS: RELINQUISHED BY 1.4 DichloriBenzene Grag Bravalage northwest descarle 7-4003 RELINQUISHED BY RECEIVED BY Payment Terms: Net 30 days. Past due accounts subject to 11/2% per month interest. Customer agrees to pay all costs of collection including reasonable **RETURN SAMPLES** DISPOSE SAMPLES attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

**NWC 001372** 

(Shipping Fee Applies)

...Where experience matters

Northwest Cascade Inc.

Puyallup, WA 98373

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/01/2016

PO Box 73399

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

Tank-1 C-479

Sample Matrix:

Wastewater

Date Sampled:

Date Received:

06/01/2016

Spectra Project: 2016060014

Spectra Number: 1

Rush

Analyte	Result	Units	Method
1,4-Dichlorobenzene	<12.5	μg/L	SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	96	SW846 8260C
Dibromofluoromethane	100	SW846 8260C
Toluene-d8	89	SW846 8260C
4-Bromofluorobenzene	91	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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June 1, 2016

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2016060014

Date Analyzed: 6/1/2016

Units: mg/L

Applies to Spectra #'s: #1

Spiked Sample 2016050951-1

#### **GCMS VOLATILE ORGANIC ANALYSIS** Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	SAMPLE	SPIKE	MS	MS	MSD	MSD	
	RESULT	AMOUNT	RESULT	%REC	RESULT	%REC	RPD
1,1-Dichloroethene	<1	10.0	10.75	108	10.33	402	4.0
Benzene	<1	10.0	10.19	102	10.39	103 104	4.0
Trichloroethene	<1	10.0	10.42	104	10.62	108	1.9 1.9
Toluene	3.26	10.0	12.30	90	12.65	94	3.8
Chlorobenzene	<1	10.0	9.12	91	9.86	99	7.8
(Results after dilution)				===		50	7.0
Surrogates		MS	MŞD	МВ	Method Bi	ank	ug/L
Dibromofluoromethane	211	105	105	107	1,4-Dichloro	benzene	<1
1,2-Dichloroethane-d4		101	105	101	•		•
Toluene-d8		89	88	88			
4-Bromofluorobenzene		97	98	108			

Steven G. Hibbs Laboratory Manager A

**CHAIN of CUSTODY** 

#### **SPECTRA** Laboratories PAGE\_\_\_\_\_of\_\_\_ 20160160014 2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com STANDARD RUSH CLIENT: Northwest assessor ADDRESS: PROJECT: Seattle HB YAVS **HYDROCARBONS ORGANICS** METALS OTHER CONTACT: TIM PeterSON PHONE: 253-606-2855 FAX:1-866-611-1577 TOTAL METALS (SPECIFY 8260 CHLOR SOLVENTS TOTAL METALS RCRAB TCLP METALS RCRA 8 e-MAIL: Timp @ NWegscoolp . COM or 8-MAIL 8270/825 SEMI VOA (SPECIFY) 1664 HEM (O&G) 1664 SGT-HEM 8270 PAH/PNA 8260/624 VOA TOLP METALS 8082/608 PCB PURCHASE ORDER #: PC - 5 FLASH POINT pH 9040/9045 NWTPH-G TX/TOX/EOX TURBIDITY SOLIDS TIME SAMPLE ID MATRIX SAMPLED SAMPLED BOD TANK-1 C-479 Graß 2 10 SPECIAL INSTRUCTIONS/COMMENTS: SIGNATURE Lori Hamilton Spectra 6-1-16 1:47 RELINQUISHED BY RECEIVED BY 1.4 DichloriBenzere RECEIVED BY

RETURN SAMPLES DIS

DISPOSE SAMPLES Payment Terms: Net 30 days. Past due accounts subject to 11/2% per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

(Shipping Fee Applies)

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03/21/2016

PO Box 73399

P.O.#:

PC-5

Project: Client ID: Seattle HB Yard

Sample Matrix:

Seattle Dump Site

Liquid

Date Sampled:

Date Received: Spectra Project: 2016030507

03/17/2016

Spectra Number: 1

<u>Analyte</u>

Result

<u>Units</u>

Method

1,4-Dichlorobenzene

Northwest Cascade Inc.

Puyallup, WA 98373

<25

μg/L

SW846 8260C

Surrogate	% Recovery	Method
1,2-Dichloroethane-d4	123	SW846 8260C
Dibromofiuoromethane	125	SW846 8260C
Toluene-d8	117	SW846 8260C
4-Bromofinorobenzene	97	SW846 8260C

ABORATORIES SPECTRAIL

Steve Hibbs, Laboratory Manager a5/bjn

2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com info@spectra-lab.com

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SPECIAL INSTRUCTION DIMMENTS:
Would like would emailed to
Tim Referser Directly

1.4 Dick briberzere

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07/01/2015

P.O.#:

PC5

Project:

Seattle Honey Bucket Yard

Client ID:

Seattle H.B. Yard

Sample Matrix:

Water

Date Sampled:

06/30/2015

Date Received: 06/30/2015

Spectra Project: 2015060821

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Result

Units

Method

1,4-Dichlorobenzene

<12.5

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	149	SW846 8260C
Dibromofluoromethane	140	SW846 8260C
Toluene-d8	135	SW846 8260C
4-Bromofluorobenzene	111	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

July 1, 2015

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2015060821 Date Analyzed: 6/30/2015 Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2015060796-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.0	15.24	152	14.76	148	3.2
Benzene		<1	10.0	10.66	107	10.29	103	3.5
Trichloroethene		<1	10.0	9.77	98	9.54	96	2.4
Toluene		. <1	10.0	10.38	104	10.06	101	3.1
Chlorobenzene (Results after dilution)		<1	10.0	10.31	103	10.18	102	1.3
Surrogates			MS	MSD	MB	Method Blank		ug/L
The second secon	Dibromofluoromethane		148	143	134	1,4-Dichlorobenzer	ne	<1
	1,2-Dichloroethane-d4		153	154	147			1.0
	Toluene-d8		105	104	118			
	4-Bromofluorobenzene		120	119	99			

Steven G. Hibbs Laboratory Manager

2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com info@spectra-lab.com SPECIAL INSTRUCTIONS/COMMENTS:

Usuld life Results Emailed to

Ron Imman @ Ron@Nucascade.com

t Tim P@ Nucascade.com

check for 1.4 Dichloribenzene

CHAIN OF CUSTODY

20190 c 0821

www.spectra-rab.com				F	letu	rn S	Sam	ıple	<b>:</b>	Υ	(N	) _	P	age	<u> </u>	L	_0	f	L		Ş	ST/	١N	D#	ıRI	כ [	X		RI	JSI	н	******
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Ross Way \* Tacoma, WA 98421 \* (253) 272-4850 \* Fax (253) 572-9838 \* www.spectra-lab.com

11/11/2014

P.O.#:

PC-05

Project:

Seattle HB Yard

Client ID:

Tank

Sample Matrix: Water

Date Sampled:

10/30/2014

Date Received: 10/31/2014

Spectra Project: 2014100963

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Result

Units

Method

1,4-Dichlorobenzene

<12.5

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	106	SW846 8260C
Dibromofluoromethane	128	SW846 8260C
Toluene-d8	94	SW846 8260C
4-Bromofiuorobenzene	92	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

November 11, 2014

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2014100963 Date Analyzed: 11/10/2014

Units: ug/L Applies to Spectra #'s: #1

Spiked Sample 2014110041-8

GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	8.84	88	8.66	87	2
Benzene		<1	10.00	10.07	101	10.69	107	6
Trichloroethene		<1	10.00	9.42	94	10.25	103	8
Toluene		1.1	10.00	10.54	94	10.59	95	1
Chlorobenzene		<1	10.00	9.58	96	9.94	99	4
(Results after dilution)					<del>- 4</del>		•	•
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Disromoliuoromethane		119	121	134	1.4-Dichlorobenzen	16	<1
	1,2-Dichloroethane-d4		99	99	118	A Committee of the Comm		5.
	Toluene-d8		98	97	94			
	4-Bromofluorobenzene		102	92	94			

Steven G. Hibbs Laboratory Manager

2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fay (253) 572-9838

SPECIAL INSTRUCTIONS/COMMENTS:

# CHAIN OF CUSTODY

SPECTRA PROJECT #

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2221 Ross Way Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com

08/04/2014

Project:

Scattle HB Yard

Client ID:

Tank -1

Sample Matrix: Water

Date Sampled:

07/29/2014

Date Received: 07/30/2014

Spectra Project: 2014070805

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Result

Units

Method

1,4-Dichlorobenzene

<25

µg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	96	SW846 8260C
Dibromofacromethane	90	SW846 8260C
Toluene-d8	101	SW846 8260C
4-Bromofluorobenzene	95	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

2221 Ross Way \* Tacoma, WA 98421 \* (253) 272-4850 \* Fax (253) 572-9838 \* www.spectra-lab.com

08/04/2014

P.O. Box 73399

Project:

Seattle HB Yard

Client ID:

Tank -1

Sample Matrix:

Water

Date Sampled:

07/30/2014

Date Received: 07/30/2014

Spectra Project: 2014070805

Spectra Number: 2

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

Result

Units

Method

1,4-Dichlorobenzene

<25

μg/L

SW846 8260C

Surrogate	Recovery	Method
1.2-Dichloroethane-d4	92	SW846 8260C
4-Bromofluorobenzene	97	SW846 8260C
Dibromofluoromethane	85	SW846 8260C
Toluene-d8	104	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

Page 2 of 2

2221 Ross Way \* Tacoma, WA 98421 \* (253) 272-4850 \* Fax (253) 572-9838 \* www.spectra-lab.com

August 4, 2014

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2014070805 Date Analyzed: 8/1/2014 Units: ug/L Applies to Spectra #a: #1-2

Spiked Sample 2014070808-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	14.	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPO
1,1-Dichloroethene		<1	10.00	14,19	142	14.56	146	3
Benzene		<1	10.00	8.57	86	8.62	86	<b>3</b>
Trichloroethene		<1	10.00	8.53	85	8.64	86	1
Toluene		<1	10.00	9.45	95	9.24	92	,
Chlorobenzene (Results after dilution)		<1	10.00	9.48	95	9.51	95	Õ
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofiuoromethane		96	98	97	1,4-Dichlorobenze	n <del>o</del>	<1
	1,2-Dichloroethane-d4		101	102	99			
	Toluene-d8		104	103	104			
	4-Bromofluorobenzene		90	92	90			

Steven G. Hibbs Laboratory Manager

2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com info@spectra-lab.com SPECIAL INSTRUCTIONS/COMMENTS:

# 1.4 Dichlori Benzene CHAIN OF CUSTODY

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01/22/2014

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

Tank-1 KWW-1 C-475

Sample Matrix: Water

Date Sampled: 01/21/2014

Date Received: 01/21/2014

Spectra Project: 2014010452

Spectra Number: 1

Analyte	Result	Units	Method
1.4-Dichlorobenzene	<12.5	пь/Т.	SW846 8260C

Surrogate	Recovery	Method
1,2-Dichleroethane-d4	166	SW846 8260C
Dibremofluoremethane	154	SW846 8260C
Toluene-d8	89	SW846 8260C
4-Bromofluorobenzene	69	SW846 B260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

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01/22/2014

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

Tank-1 KUW-1 C-420

Sample Matrix: Water

Date Sampled:

01/21/2014

Date Received: 01/21/2014

Spectra Project: 2014010452

Spectra Number: 2

Analyte

Result

Units

Method

1,4-Dichlorobenzene

<12.5

µg/L

SW846 8260C

Burrogate	Recovery	Method
1,2-Dichloroethane-d4	169	SW846 8260C
4-Bromofluorobenzene	57	SW846 8260C
Dibromofluoromethane	153	SW846 8260C
Toluene-dB	88	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

Page 2 of 2

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RELINQUISHED BY

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SPECIAL INSTRUCTIONS/COMMENTS:

## 1.4 Dichlor, BANZENP

**CHAIN OF CUSTODY** 

STANDARD Return Samples: Y N RUSH CLIENT: Northwest Cascale ADDRESS: CHANGE CONTACT: PON IN MAN **HYDROCARBONS ORGANICS** METALS OTHER SAMPLED BY. Grag Brandier TOTAL METALS (SPECIFY) TOLP METALS (SPECIFY) 8260 CHLOR SOLVENTS TOTAL METALS RORA 6 TCLP METALS RCRA 8 1664 SGT-HEM (TPH) 8270-825 SEMI VOA SOLIDS (SPECIFY) 1864 HEM (FOG) NUMBER OF 8270 PAH/PNA NWTPH-HCID 8082/608 PCB 8260/624 VOA PH 9040/9045 FLASH POINT TX/TOX/EOX NWTPH-DX NWTPH-G TURBIDITY **PURCHASE ORDER #** DATE SAMPLE ID SAMPLED C-475 9 10 LAB USE ONLY SIGNATURE PRINTED NAME COMPANY DATE TIME Shipped Via: RELINQUISHED BY US Mail UPS Fed Ex Courier Cheric Shipping Container: RECEIVED BY Cooler Box Envelope None

Payment Terms: Net 30 days. Past due accounts subject to 1 1/2% per month interest. Customer agrees to pay all costs of collection including reasonable

attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Leboratories, LLC

Tracking #

Cooler Temp.

Custody Seals: Y N.

Sample Temp. 11.1/

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

12/30/2013

Project:

Seattle HB Yard

Client ID:

Tank 1 KS1-3 C. 450

Sample Matrix: Water

P.O. Box 73399

Northwest Cascade Inc.

Date Sampled: 12/27/2013

Puyallup, WA 98373 Date Received: 12/27/2013

Spectra Project: 2013120536

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

<12.5

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	110	SW846 8260C
Dibromofinoromethane	139	SW846 8260C
Toluene-d8	72	SW846 8260C
4-Bromofluorobenzene	85	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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December 30, 2013

Northwest Cascade Inc. P.O. Box 73399 Puyaliup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2013120536 Date Analyzed: 12/30/2013

Units: ug/L Applies to Spectra #s: #1

Spiked Sample 2013120536-1

GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene (Results after dilution)		<1 <1 <1 <1	10.00 10.00 10.00 10.00 10.00	5.60 10.39 9.55 8.60 9.64	56 104 96 86 96	6.51 10.95 10.16 9.36 9.87	65 110 102 94 99	15 5 6 8 2
Surrogates	Dibromotiuoromethane 1,2-Dichloroethane-d4		MS 130 102	MSD 146	MB 167	Method Blank	19	ug/L
	Toluene-d8 4-Bromoffuorobenzene		72 88	117 70 85	140 72 77			

Steven G. Hibbs Laboratory Manager

2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com info@spectra-lab.com SPECIAL INSTRUCTIONS/COMMENTS:

1.4 Dichloribenzene

#### **CHAIN OF CUSTODY**

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SAMPLE ID DATE	TIME MATRIX	NUMBER	NWTPH-HCID	BTEX	STEXAN	NWTPH-G	NWTPH-Dx	664 SG	664 HE	***************************************	Paginas	E CH	270-625	8270 PAH/PNA	auszans PCB	OTAL MI	OTAL MI	OLP ME	SLP ME		PH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	BOD	S) SQITO					
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09/12/2013

Project:

Seattle Yard HB

C479

Northwest Cascade Inc.

P.O. Box 73399

Puyallup, WA 98373

Client ID:

Sample Matrix: Water

Date Sampled: 09/02/2013

Date Received: 09/04/2013

Spectra Project: 2013090069

Spectra Number: 1

Analyte	Result	Units	Method
1,4-Dichlorobenzene	16	μg/L	SW846 8260C

Surrogate	Recovery	Method
1.2-Dichloroethane-d4	104	SW846 8260C
Dibromofluoromethane	102	SW846 8260C
Toluene-d8	.98	SW846 8260C
4-Bromofluorobenzene	89	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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September 12, 2013

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/ 8260C

Spectra Project: 2013090069 Date Analyzed: 9/6/2013

Units: ug/L

Applies to Spectra #s: #1

#### GCMS VOLATILE ORGANIC ANALYSIS Laboratory Control Sample (LCS/LCSD) Results

COMPOUND	SAMPLE RESULT	************************	CONTRACTOR OF THE PROPERTY OF	LCS %REC	SPIKE DUP RESULT	LCSD %REC	RPD
1,1-Dichloroethene	<1	10.00	12.81	128	12.70	127	4
Benzene	<1	10.00	9.26	93	8.97	90	3
Trichloroethene	<1	10.00	9.17	92	9.20	92	n
Toluene	<1	10.00	11.44	114	10.43	104	9
Chlorobenzene	<1	10.00	9.98	100	9.92	99	1

Surrogates	LCS	LCSD	MB	Method Blank	ug/L
Dibromofluoromethane	116	117	120	1,4-Dichlorobenzene	4
1,2-Dichloroethane-d4	117	117	120	.,	9
Toluene-d8	83	81	82		
4-Bromofluorobenzene	90	93	92		

Steven G. Hibbs Laboratory Manager

# **CHAIN of CUSTODY**

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PURCHASE ORDER #: PC	5			NUMBER OF	H-HC		BTEX/NWTPH-G	Ö.	ξŽ	1664 SGT-HEM 1664 HEM (ORG)		24 VO,	HLOH	25 SE	AHVPN 38 PCE		META	META	(ETAL	(ETAL)	7/9045	Æ0X	È	POINT		(SPE					
SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX	NCMB	NWTPH-HCID	втех	втех/	NWTPH-G	NWTPH-D <sub>x</sub>	1664 5		8260/624 VOA	8260 CHLOR SOLVENTS	8270/625 SEMI	8270 PAH/PNA 8082/608 PCB	in the second	TOTAL METALS RCRAS	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)	pH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	800	SOLIDS (SPECIFY)					
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Payment Terms: Net 30 days. Past due accounts subject to 11/2% per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

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DISPOSE SAMPLES X

RETURN SAMPLES (Shipping Fee Applies)

NWC 001396

M99CS000589M 01/06

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/13/2013

P.O.#:

PC5

Project:

Seattle Yard HB

Client ID:

Tank

Sample Matrix: Water

Date Sampled:

06/05/2013

Date Received: 06/11/2013

Spectra Project: 2013060218

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Result

Units

Method

1,4-Dichlorobenzene

<12.5

µg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	146	SW846 8260C
Dibromofluoromethane	125	SW846 8260C
Toluene-d8	90	SW846 8260C
4-Bromofluorobenzene	70	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

June 13, 2013

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2013060218 Date Analyzed: 6/12/2013 Units: ug/L

Applies to Spectra #s: #1

Spiked Sample 2013060223-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	, , , , , , , , , , , , , , , , , , ,	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	8.00	80	7.65		
Benzene		<1	10.00	9.39	94	Date of State	77	4
Trichlomethene		<1	10.00	10.02	100	9.29	93	1
Toluene		2.0	10,00	12.41	104	10.24	102	2
Chłorobenzene		<1	10.00	10.46	1111475	12.39	104	0
(Results after dilution)			10.00	10.40	105	10.56	106	1
Surrogates			MS	MSD	MB	Method Blank		
	Dibromofluoromethane		134	130	133	1,4-Dichlorobenzer		ug/L
	1,2-Dichloroethane-d4		151	148	148	1,4-Uichlorobanzer	18	<1
	Toluene-d8		94	94	94			
	4-Bromofluorobenzene		102	96	104			

Steven G. Hibbs **Laboratory Manager** 

#### **CHAIN of CUSTODY**

# SPECTRA Laboratories 7013000218

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PHONE: 253465	5-6625FAX: 253	348 2	399	CONTAINERS								- DEVE				PAG BAG	ECIFI	A 8	CIFY										
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SAMPLE II	DATE	TIME	MATRIX	NUMBER OF	NWTPH-HCID	BTEX	NWTPH-G	NWTPH-D	1664 SC	1664 HE		SSEUCE SOCO	ROZO/RO	8270 PAHIPNA	8082/608 PCB	TOTAL	TOTAL	TOLD	TCLPM	nH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	BOD	SOLIDS				
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Puyallup, WA 98373

Analyte

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10/19/2012

P.O.#:

PC5

Project:

Sea HB Yard

Client ID:

**KRN3 C403** 

Sample Matrix: Liquid

Date Sampled:

10/05/2012

Date Received: 10/16/2012

Spectra Project: 2012100389

Spectra Number: 1

Result

Units

Method

1,4-Dichlorobenzene

17

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	108	SW846 8260C
Dibromoflooromethane	94	SW846 8260C
Toluene-d8	120	SW846 8260C
4-Bromofluorobenzene	102	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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October 19, 2012

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2012100389 Date Analyzed: 10/18/2012

Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2012100389-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	9.92	99	9,63	96	3
Benzene		<1	10.00	10.00	100	9.82	98	2
Trichloroethene		<1	10.00	10.33	103	10.04	100	3
Toluene		<1	10.00	10.70	107	10.41	104	3
Chlorobenzene (Results after dilution)		<1	10.00	9.83	98	9.40	94	4
Surrogates			MS	MSD	МВ	Method Blank		ug/L
	Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene		96 104 115 114	95 102 115 110	100 110 106 122	1,4-Dichlorobenze	ene	

### **SPECTRA** Laboratories

2012100389

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2221 Ross Way • Tacoma, WA 98421 •	(253) 272-4	1850	4	Fax (	(253)	572-	9838	•	W	ww.	speci	tra-la	ab.co	n			S	TA	NC	)AI	₹D	_	>=	÷		L	RUS	H		
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attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Laboratories, LLC.

Northwest Cascade Inc.

Puyallup, WA 98373

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07/18/2012

P.O.#:

PC5

Project:

Sea HB Yard

Client ID:

C473 KLH3

Sample Matrix: Water

Date Sampled:

07/11/2012

Date Received: 07/16/2012

Spectra Project: 2012070294

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

23

 $\mu g/L$ 

SW846 8260C

Method
SW846 8260C
SW846 8260C
SW846 8260C
SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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July 18, 2012

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2012070294 Date Analyzed: 7/17/2012

Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2012070292-1

### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene (Results after dilution)	<1 <1 <1 <1	10.00 10.00 10.00 10.00 10.00	6.79 8.81 8.44 10.70 10.59	68 88 84 107 106	7.01 8.59 8.84 10.97 11.18	70 86 88 110 112	3 3 5 2 5

Surrogates

	MS	MSD
Dibromofluoromethane	80	79
1,2-Dichloroethane-d4	99	95
Toluene-d8	117	117
4-Bromofluorabenzene	94	94

#### **CHAIN of CUSTODY SPECTRA** Laboratories 2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 STANDARD RUSH www.spectra-lab.com CLIENT: ADDRESS: PROJECT: **HYDROCARBONS ORGANICS METALS OTHER** INMANN CONTACT: NUMBER OF CONTAINERS TOTAL METALS (SPECIFY) TCLP METALS (SPECIFY) PHONE: TOTAL METALS RCRAS TCLP METALS RCHAB RON @ ANCASCASE. Win 8270/625 SEMI VOA Prefer FAX Q SOLIDS (SPECIFY) e-MAIL: THE MUCHCALE, COM BTEXNWTPH-G 1664 HEM (O&G) or e-MAIL D 1664 SGT-HEM 8270 PAH/PNA NWTPH-HCID 8260/524 VOA 8082/608 PCB FLASH POINT pH 9040/9045 TX/TOX/EOX PURCHASE ORDER #: NWTPH-G NWTPH-D<sub>X</sub> DATE TIME SAMPLE ID MATRIX SAMPLED SAMPLED 0570 SCaB 2 3 5 6 8 10 SPECIAL INSTRUCTIONS/COMMENTS SIGNATURE TIME 1,4 Dichlorobusine RELINQUISHED BY RECEIVED BY RELINQUISHED BY

Payment Terms: Net 30 days. Past due accounts subject to 11/2% per month interest. Customer agrees to pay all costs of collection including reasonable

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RETURN SAMPLES

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NWC 001405

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### NW CASCADE

JUN 2 5 2012

06/21/2012

P.O.#:

PC5

Project:

Sea HB Yard

Client ID:

C473 KDTZ

Sample Matrix:

Water

Date Sampled:

06/20/2012

Date Received:

06/20/2012

Spectra Project:

2012060506

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

13.0

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	125	SW846 8260C
Dibromofluoromethane	87	SW846 8260C
Toluene-d8	116	SW846 8260C
4-Bromofluorobenzene	118	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/sgh

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

June 21, 2012

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/ 8260C Spectra Project: 2012060506 Date Analyzed: 6/21/2012 Units: ug/L

Applies to Spectra #'s: #1

#### GCMS VOLATILE ORGANIC ANALYSIS Laboratory Control Sample (LCS/LCSD) Results

COMPOUND	SAMPLE RESULT	SPIKE AMOUNT	SPIKE RESULT	LCS %REC	SPIKE DUF LCSD RESULT %REC	RPD
1,1-Dichloroethene	<1	10.00	13.05	131	12.68 127	3
Benzene	<1	10.00	10.01	100	9.82 98	2
Trichloroethene	<1	10.00	10.22	102	10.11 101	4
Toluene	<1	10.00	10.64	106	10.91 109	3
Chlorobenzene	<1	10.00	10.57	106	10.57 106	0
* out of limits						
Surrogates	a a	LCS	LCSD	MB	Method Blank	ug/L
Dibromofluoromethane		107	101	88		<1
1,2-Dichloroethane-d4		110	104	106		*
Toluene-d8		123	122	122		
4-Bromofluorobenzene		103	106	108		

STANDARD

#### **SPECTRA** Laboratories

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SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX	NOMB	NWTP	втех	втехл	NWTPH-G	NWTPH-D <sub>x</sub>	1664 S	1664 H	No. of Persons and Persons and Persons and Persons and Persons and Persons and Persons and Persons and Persons	8260/6	8260 C	8270/6	8270 P.	8082/6	TOTAL METALS RCRAB	TOTAL	TCLP	TCLP METALS (SPECIFY)	100	pH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	BOD	SOLIDS (SPECIFY)					
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(Shipping Fee Applies)

**NWC 001408** 

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

05/10/2012

P.O.#:

Job 3627

Project:

Sea HB Yard

Client ID:

C479 KSS2

Sample Matrix: Water

Date Sampled:

05/09/2012

Date Received: 05/09/2012

Spectra Project: 2012050265

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

163

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	109	SW846 8260C
Dibromofluoromethane	114	SW846 8260C
Toluene-d8	104	SW846 8260C
4-Bromofluorobenzene	98	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/sgh

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May 10, 2012

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water

EPA Method: 624/8260C

Spectra Project: 2012050265 Date Analyzed: 5/10/2012

Units: ug/L.

Applies to Spectra #'s: #1

Spiked Sample 2012050102-2

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene	<1	10.00	11.57	116	44.00	4.4.4	
Benzene	<1	10.00	10.43		11.39	114	2
Trichloroethene				104	10.83	108	4
	<1	10.00	9.73	97	10.21	102	5
Toluene	2:3	10.00	11.70	94	12.28	100	6
Chlorobenzene (Results after dilution)	<1	10.00	9.31	93	10.13	101	8
Surrogates		MS	MSD	МВ	Method Blank		ug/L
Dibromofluoromethane	9	112	115	116	1,4-Dichlorobenze	ene	<1
1,2-Dichloroethane-d4		110	111	110			i i
Toluene-d8		99	102	99			
4-Bromofluorobenzene	1	99	100	97			

#### **SPECTRA** Laboratories

STANDARD

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INTACT: RON INMANY			33	I	I		T	T			Γ			Ī	T	T	T	T		1	· · · I					1		T	<del></del>	<del></del>
MAIL: Timp@nhlascade.com  RCHASE ORDER #:	Prefer I or e-M		OF CONTAINERS	HCID		BTEX/NWTPH-G	G	D <sub>x</sub>	M (0&G)	The state of the s	VOA	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	//PNA	PCB	TOTAL METALS RCRAS	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)		1045	XO	>	TNIC		SOLIDS (SPECIFY)		The second secon		
SAMPLE ID DATE SAMPLED	TIME SAMPLED	MATRIX	NUMBER	NWTPH	втех	BTEX/NV	NWTPH-G	NWTPH-D <sub>X</sub>	1664 HEM (O&G)		8260/624 VOA	3260 CHI	3270/625	8270 PAH/PNA	8082/608 PCB	OTAL M	OTAL M	CLP ME	CLP ME		pH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	800	sono				The state of the s
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(Shipping Fee Applies)

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02/24/2012

P.O.#:

PC-5

Project:

Seattle HB Yard

Northwest Cascade Inc.

Client ID:

Tank

P.O. Box 73399

Sample Matrix: Water

Date Sampled:

02/22/2012

Puyallup, WA 98373 Attn: Ron Inman

Date Received: 02/22/2012

Spectra Project: 2012020544

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

<10

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	114	SW846 8260C
Dibromofluoromethane	104	SW846 8260C
Toluene-d8	95	SW846 8260C
4-Bromofluorobenzene	96	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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February 24, 2012

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2012020544 Date Analyzed: 2/23/2012

Units: ug/L

Applies to Spectra #'s: #1 Spiked Sample 2012020557-1

#### **GCMS VOLATILE ORGANIC ANALYSIS** Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	11.73	117	11.69	117	0
Benzene		<1	10.00	10.52	105	10.62	106	4
Trichloroethene		<1	10.00	10.55	106	10.23	102	3
Toluene		<1	10.00	10.36	104	10.27	103	1
Chlorobenzene (Results after dilution)		<1	10.00	9.61	96	10.08	101	5
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene		104 110 97 94	104 109 97 95	104 104 100 101	1,4-Dichlorobenzen	3	<1

Steven G. Hibbs

Laboratory Manager

**CHAIN of CUSTODY** 

012020544	PAGEof	
2-9838 • www.spectra-lab.com	STANDARD	RUSH

PROJECT: Southle HB			and the same of th			HYE	ORC	CA	RB	ONS	}	T	OI	RG	INI	cs		· · · · · · · · · · · · · · · · · · ·	ME	TA	LS	1				46000	ОТ	ГНЕ	R	المتنادة		
CONTACT: RON INN				SE SE							T		(0						2		2	T		I		I		T	1	T	T	
PHONE: 253-405-6625F BANCHIS CASCAR B-MAIL: TIMP & HA COSCO PURCHASE ORDER #: PC	AX: 253. COPT decor -5	- 848-2 Prefer I or e-M	2379 FAX D IAILEQ	NUMBER OF CONTAINERS	NWTPH-HCID		BTEX/NWTPH-G	NWTPH-G	NWTPH-D <sub>X</sub>	1664 SGT-HEM	1664 HEM (O&G)	8260/624 VOA	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	8270 PAH/PNA	8082/608 PCB		TOTAL METALS RCHAB	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TOLP METALS (SPECIFY)	:	pH 9040/9045	TXTOXEOX	TURBIDITY	FLASH POINT	(	SOLIDS (SPECIFY)				
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NWC 001414

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02/24/2012

Project:

Seattle HB Yard

Northwest Cascade Inc.

Tank

P.O. Box 73399

Sample Matrix: Water

Puyallup, WA 98373

02/21/2012

Date Sampled:

Client ID:

Date Received: 02/21/2012

Spectra Project: 2012020504

Spectra Number: 2

Analyte	Result	<u>Units</u>	Method
1,4-Dichlorobenzene	<10	μg/L	SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	106	SW846 8260C
4-Bromofluorobenzene	95	SW846 8260C
Dibromofluoromethane	103	SW846 8260C
Toluene-d8	95	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/sgh

Page 2 of 2

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02/24/2012

Northwest Cascade Inc.

P.O. Box 73399

Puyallup, WA 98373

Project:

Seattle HB Yard

Client ID:

Tank

Sample Matrix: Water

Date Sampled:

02/20/2012

Date Received: 02/21/2012

Spectra Project: 2012020504

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

16

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	106	SW846 8260C
Dibromofluoromethane	107	SW846 8260C
Toluene-d8	96	SW846 8260C
4-Bromofluorobeazene	91	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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February 24, 2012

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2012020504 Date Analyzed: 2/23/2012

Units: ug/L Applies to Spectra #'s: #1-2 Spiked Sample 2012020557-1

GCMS VOLATILE ORGANIC ANALYSIS

Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	11.73	117	11.69	117	0
Benzene		<1	10.00	10.52	105	10.62	106	1
Trichloroethene		<1	10.00	10.55	106	10.23	102	3
Toluene		<1	10.00	10.36	104	10.27	103	1
Chlorobenzene (Results after dilution)		<1	10.00	9.61	96	10.08	101	5
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		104	104	104	1,4-Dichlorobenze	ene	<1
	1,2-Dichloroethane-d4		110	109	104			
	Toluene-d8		97	97	100			
	4-Bromofluorobenzene		94	95	101			

RETURN SAMPLES DISPOSE SAMPLES Payment Terms: Net 30 days. Past due accounts subject to 11/2% per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whather suit is filled in Playre Co. Whather the suit is filled in Playre Co. What is the suit is filled in Playre Co. Whather the suit is filled in Playre Co. Whather the suit is filled in Playre Co. Whather the suit is filled in Playre Co. Whather the suit is filled in Playre Co. Whather the suit is filled in Playre Co. What is the suit is filled in Playre Co. What is the suit is the suit is filled in Playre Co. What is the suit is the suit is the suit is the suit is the suit is the suit is the suit is the suit is the sui	SPECTR	A L	abora	ator	ies	3			11,-	2	0	112	70	U	X	<b>5</b> 0	)4				PA	GE		_(	<i>"</i>	<del></del>	of .		<u> </u>			
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(Shipping Fee Applies)

NWC 001418

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

02/21/2012

Project:

Seattle HB Yard

Client ID:

Tank

Northwest Cascade Inc. P.O. Box 73399

Puyallup, WA 98373

Sample Matrix: Water

Date Sampled:

Date Received: 02/17/2012

02/17/2012

Spectra Project: 2012020460

Spectra Number: 1

Analyte Result Units Method 1,4-Dichlorobenzene 31  $\mu g/L$ SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	101	SW846 8260C
Dibromofluoromethane	108	SW846 8260C
Toluene-d8	92	SW846 8260C
4-Bromofluorobenzene	90	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

February 21, 2012

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2012020460 Date Analyzed: 2/17/2012

Units: ug/L Applies to Spectra #'s: #1

Spiked Sample 2012020416-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	11.09	111	11.93	119	7
Benzene		<1	10.00	11.38	114	11.91	119	5
Trichloroethene		<1	10.00	10.63	106	10.06	101	6
Toluene		7.6	10.00	17.35	98	16.68	91	7
Chlorobenzene (Results after dilution)	·	<1	10.00	9.74	97	9.85	99	1
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene		100 102 92 95	101 102 91 96	102 102 93 95	1,4-Dichlorobenze	ПӨ	<1

2221 Ross Way • Taco	ma, WA 984	421 •	(253) 27	2-485	0	· F	<sup>7</sup> ax (	(253)	572	2-98	38		www	.spe	ctra-	lab.com	n			ST	AN	DA	RE		Z			RI	JSH[	
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PROJECT: Significant HB	Y7.00					HYE						Ĭ	<del></del>	-	ANI	*****			<del></del>	NLS						0	THE	:R		
PHONE: 253-405-6625 F. PON ENGUESISCOPPO PURCHASE ORDER #:	AX:253- .com 9dp.C	8118 - 2 Prefer 2/20r e-W	¥389 FAX □ MAIL 🛊	ER OF CONTAINERS	NWTPH-HCID		BTEX/NWTPH-G	-t-G	-το <del>χ</del>	1664 SGT-HEM	1664 HEM (O&G)	A VOA	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	H/PNA	8 PCB	TOTAL METALS RCRAB	TOTAL METALS (SPECIFY)	TCLP METALS HCRA 8	TOLP METALS (SPECIFY)		/9045	БОХ	ПY	TNIO		(SPECIFY)			
SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX	NUMBER OF	NWTTP	BTEX X	втехл	NWTPH-G	NWTPH-D <sub>X</sub>	1664 S	1664 H	8260/624 VOA	8260 CI	8270/62	8270 PAH/PNA	8082/608 PCB	TOTAL I	TOTAL	TCLP M	CLPM	and the same of th	pH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	800	SOLIDS (			
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(Shipping Fee Applies)

**NWC 001421** 

2221 Ross Way Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com

02/17/2012

P.O.#:

PC5

Project:

Seattle HB Yard

Client ID:

Tank

Northwest Cascade Inc.

Sample Matrix: Water

P.O. Box 73399

02/07/2012

Puyallup, WA 98373

Date Sampled:

Date Received: 02/07/2012

Spectra Project: 2012020161

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

17

μg/L

SW846 8260C

Swrogate	Recovery	Method
1,2-Dichloroethane-d4	94	SW846 8260C
Dibromofluoromethane	91	SW846 8260C
Toluene-d8	102	SW846 8260C
4-Bromofhiorobenzene	85	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/sgh

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February 17, 2012

Northwest Cascade Inc. P.O. Box 73399 Payallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2012020161 Date Analyzed: 2/9/2012

Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2012020249-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	12.39	124	12.59	126	2
Benzene		2.0	10.00	11.93	99	11.91	99	n
Trichloroethene		<1	10.00	9.95	100	10.06	101	1
Toluene		7.2	10.00	17.40	102	16.68	95	7
Chlorobenzene (Results after dilution)		<1	10.00	10.60	106	9.85	99	7
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		93	96	96	1,4-Dichlorobenze	ene	<1
	1,2-Dichloroethane-d4		95	97	95			
	Toluene-d8		95	94	96			
	4-Bromofluorobenzene		92	92	94			

### **SPECTRA** Laboratories

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STANDARD

PROJECT: South HB	Yard	<i></i>			Н	YDF	OC.	ARE	30N	IS	I	O	RG/	NI	cs		М	ETA	LS					*******	ОТІ	HER	-		-
PROJECT: Southle HB CONTACT: FIM Peterse	J			ЯS		T					Ť	T.,					18	I	2			T	T		T		П	T	T
PHONE: 253-415-6625 ROW ENW COSCOLOR e-MAIL: TIMPENW COSCO PURCHASE ORDER #: D	FAX: 253-	Prefer or e-M	SS9 FAX II AIL M	NUMBER OF CONTAINERS	NWTPH-HCID	BIEX BTEXNWTPH-G	H-G	NWTPH-D <sub>X</sub>	SGT-HEW	1664 HEM (O&G)	8280/624 VOA	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	8270 PAH/PNA	8082/608 PCB	TOTAL METALS RCRAB	TOTAL METALS (SPECIFY)	TCLP METALS RCHA 8	TCLP METALS (SPECIFY)		pH 9040/9045	TX/TOX/EOX	ALIO .	FLASH POINT	SOLIDS (SPECIFY)	innerventen od state od state od state od state od state od state od state od state od state od state od state			
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**NWC 001424** 

(Shipping Fee Applies)

2221 Ross Way Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com

01/27/2012

P.O.#:

PC-5

Project:

Seattle Yard HB

Client ID:

Tank

Northwest Cascade Inc.

Sample Matrix: Water

P.O. Box 73399

01/24/2012

Puyallup, WA 98373

Date Sampled:

Date Received: 01/24/2012

Spectra Project: 2012010401

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

27

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	89	SW846 8260C
Dibromofluoromethane	89	SW846 8260C
Toluene-d8	92	SW846 8260C
4-Bromofluorobenzene	84	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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January 27, 2012

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2012010450 Date Analyzed: 1/26/2012

Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2012010450-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPC
1.1-Dichloroethene		<1	10.00	14.13	141	15.25	153	8
Benzene		<1	10.00	9.65	97	9.46	95	2
Trichloroethene		<1	10.00	10.02	100	10.01	100	0
Toluene		4.6	10.00	13.76	91	14.42	98	7
Chlorobenzene (Results after dilution)		<1	10.00	9.80	98	9.85	99	1,
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		91	89	90	1,4-Dichlorobenz	ene	<1
	1,2-Dichloroethane-d4		88	87	86			
	Toluene-d8		90	92	90			
	4-Bromofluorobenzene		81	89	85			

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SAMPLE ID	DATE	TIME SAMPLED	MATRIX	NUMBER	PEWN PEWN	BTEX	BTEX	NWTPH-G	NWTPH-D <sub>x</sub>	1664 S	1664 F	8280/6	8260 (	8270/6	8270 F	8082/6	TOTAL METALS RCRAB	TOTAL METALS (SPECIFY,	121	TCLP METALS (SPECIFY)		pH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	BOD	SOLIDS (SPECIFY)				
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**NWC 001427** 

M99CS000569M 01/06

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

01/10/2012

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

**Dump Site** 

Sample Matrix: Water

Date Sampled:

01/09/2012

Date Received: 01/09/2012

Spectra Project: 2012010162

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Result

Units

Method

1,4-Dichlorobenzene

25

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	95	SW846 8260C
Dibromofluoromethane	82	SW846 8260C
Toluene-d8	89	SW846 8260C
4-Bromofluorobenzene	87	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/sgh

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

January 10, 2012

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2012010162 Date Analyzed: 1/10/2012 Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2012010170-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	13.29	133	12.85	129	3
Benzene		<1	10.00	9.74	97	9.52	95	2
Trichloroethene		<1	10.00	10.43	104	10.30	103	1
Toluene		1.2	10.00	10.58	94	10.14	89	5
Chlorobenzene (Results after dilution)		<1	10.00	10.00	100	9.59	96	4
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		83	81	81	1,4-Dichlorobenze	ne	<1
	1,2-Dichloroethane-d4		96	94	92			
	Toluene-d8		91	91	92			
	4-Bromofluorobenzene		89	92	89			

#### **SPECTRA** Laboratories 2012010162 STANDARD RUSH Fax (253) 572-9838 • www.spectra-lab.com 2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • CLIENT: ADDRESS: PROJECT: **HYDROCARBONS ORGANICS METALS** OTHER CONTACT: NUMBER OF CONTAINERS TOTAL METALS (SPECIFY) TCLP METALS (SPECIFY) PHONE: \$33.405. 6625 FAX: 508.445. 8327 8250 CHLOR SOLVENTS TOTAL METALS RCRAB TCLP METALS RCRAB 8270/625 SEMI VOA e-MAIL: PON @ NW Cascade SOLIDS (SPECIFY) 1664 HEM (O&G) BTEX/MWTPH-G or e-MAIL 1664 SGT-HEM 8270 PAH/PNA 8280/624 VOA 8082/608 PCB pH 9040/9045 FLASH POINT NWTPH-D<sub>x</sub> TX/TOX/EOX TURBIDITY **PURCHASE ORDER #:** NWTPH-G TIME 800 MATRIX SAMPLE ID SAMPLED SAMPLED Dung Ste 1/9/2012 Grab 1 2 5 6 8 9 10 SPECIAL INSTRUCTIONS/COMMENTS: SIGNATURE PRINTED NAME COMPANY 1.4 Dichlaribenzine RELINQUISHED BY RECEIVED BY RELINQUISHED BY

RETURN SAMPLES DISPOSE SAMPLES (Shipping Fee Applies)

NWC 001430

RECEIVED BY

Payment Terms: Net 30 days. Past due accounts subject to 11/2% per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

M99CS000569M 01/06

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

12/01/2011

Project:

Sea HB Yard

Client ID:

Tank

Sample Matrix: Water

Date Sampled:

11/28/2011

Date Received: 11/28/2011

Spectra Project: 2011110602

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Result

Units

Method

1,4-Dichlorobenzene

<12.5

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	111	SW846 8260C
Dibromofinoromethane	107	SW846 8260C
Toluene-d8	95	SW846 8260C
4-Bromofloorobenzene	74:	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/sgh

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

December 1, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011110602

Date Analyzed: 11/30/2011 Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2011110573-2

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

OMPOUND	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD . %REC	RPD
1-Dichloroethene	<1	10.00	9.09	91	9.23	92	7
enzene	<1	10.00	10.44	104	10.38	104	4
ichloroethene	<1	10.00	10.06	101	10.11	101	ດ່
luene	<1	10.00	10.82	108	10.68	107	1
nlorobenzene esults after dilution) out of limits due to sample matrix effects.	<1	10.00	11.61	116	11.72	117	1
urrogates		MS	MSD	MB	Method Blank		ug/L
Dibromofluorometh		109	113	110	1,4-Dichlorobenza	ene	<1
1,2-Dichloroethane	-d4	116	121	121			
Toluene-d8		106	102	99			
4-Bromofluorobenz	ene	94	96	96			

Steven G. Hibbs Laboratory Manager

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**NWC 001432** 

#### SPECTRA Laboratories STANDARD 🔊 RUSH Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com 2221 Ross Way • CLIENT: North Lest cascale ADDRESS: **HYDROCARBONS ORGANICS OTHER METALS** CONTACT: RON TWMAN NUMBER OF CONTAINERS TOTAL METALS (SPECIFY) PHONE: 253 405 6625 FAX: RANGE NEW CONSUME B-MAIL: TI'M PO NEW CANCELE TCLP METALS (SPECIFY) 8260 CHLOR SOLVENTS TOTAL METALS RCRAB TCLP METALS RCRA 8 8270/625 SEMI VOA Prefer FAX Q SOLIDS (SPECIFY) 1664 HEM (0&G) BTEX/NWTPH-G or e-MAIL 8 1664 SGT-HEM 8270 PAH/PNA NWTPH-HCID 8250/624 VOA 8082/608 PCB FLASH POINT pH 9040/9045 TX/TOX/EOX PURCHASE ORDER #: PC 5 NWTPH-G NWTPH-Dx TURBIDITY TIME MATRIX SAMPLE ID SAMPLED SAMPLED TANK 1330 GMB SIGNATURE SPECIAL INSTRUCTIONS/COMMENTS: PRINTED NAME DATE TIME

Jeff Nongrobski RELINQUISHED BY 1.4 Dichloro BenziNe RECEIVED BY RELINQUISHED BY RECEIVED BY Payment Terms: Net 30 days. Past due accounts subject to 11/2% per month interest. Customer agrees to pay all costs of collection including reasonable DISPOSE SAMPLES 10 RETURN SAMPLES

(Shipping Fee Applies)

attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

M99CS000569M 01/06

## NIV CASCADE

## SPECTRA Laborationies 2011

2221 Ross Way \* Tacoma, WA 98421 \* (253) 272-4850 \* Fax (253) 572-9838 \* www.spectra-lab.com

11/03/2011

Project:

Sea HB Yard

Client ID:

Tank 5

Sample Matrix: Water

Date Sampled:

11/02/2011

Date Received: 11/02/2011

Spectra Project: 2011110060

Spectra Number: 1

Rush

**Analyte** 

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Result

Units

Method

1,4-Dichlorobenzene

17

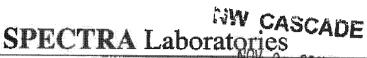
µg/L

SW846 8260C

Surrogete	Recovery	Method
1,2-Dichloroethane-d4	82	5W846 8260C
Dibromorhusoromethane	104	SW846 8260C
Tolucae-d8	101	SW846 8260C
4-Dromofluorobenzene	81	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh



2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 Fax (253) 572-9838 • www.spectra-lab.com

November 3, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyaliup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011110060

Date Analyzed: 11/2/2011 Units: ug/L

Applies to Spectra #'s; #1

Spiked Sample 2011110047-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	WALLES AND THE PROPERTY OF THE	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		and the same of th	40.00					
Benzene		<1	10.00	9.13	91	9.25	93	1
		1.5	10.00	11.12	97	11.35	99	2
Trichloroethene		<1	10.00	9.96	100	9.37	94	6
Toluene		6.8	10.00	17,92	112	17.38	106	5
Chlorobenzene		<1	10.00	11.36	114	11.34	113	ő
(Results after dilution)	)		,		• • •	11104	110	Ų
*Out of limits due to s	ample matrix effects.							
Surrogates			MS	MSD	MB	Method Blank		uefl
	Dibromofluoromethane	e	99	102	98	1,4-Dichlorobenz		ug/L <1
	1,2-Dichloroethane-d4		111	112	112	· 2 · 10-10-110-110-110-110-110-110-110-110-1	10110	
	Toluene-d8		107	108	109			
	4-Bromofluorobenzene	<del>)</del>	101	99	98			

	<b>SPECTR</b> A	A La	abora	ator	ies	•	á			1	, 10	17	) }	11	) <sub>(</sub> _	ر)(	9 C	)				P	٩GI	E		1	•	of	_/	<i>'</i>			
	2221 Ross Way • Tacome	a, WA 984	121 •	(253) 272	2-4850	)	•	Fax I											n			ST	AN	DA	RE	)[				RI	USH	1	Z
	CLIENT: Northwest C3.	Sca0	<b>C</b> .		ADD	AE:	SS:						-	*******	**********					11 <b>0</b>	terreta agrapa		-			*******	and the second	*********	manife tradein	**********	protestation of	Proposition	er institu
	PROJECT: Sa NB 4	bed				Γ	НΥ	DRO	OC/	ARE	30N	NS.	ī		OR	IGA	NIC	S	T	M	ET/	\LS	1			******		01	THE	R	-	-	
	CONTACT: ROW INMAND ROWENINCESCALE, COM- PHONE: TIMPENINCESCALE, COM- PHONE: TIMPENINCESCALE, COM- PANELLINE DE LA COMPANI PHONE: TIMPENINCESCALE, COM- PANELLINE DE LA COMPANI PHONE: TIMPENINCESCALE, COM- PHONE: TIMPENI	ر د ع	138K	2389	CONTAINERS								l		ENTS				PAB	ECIFY)	A8	CIFY)				I	1			1			
	e-MAIL: 253-165-66	625	Prefer	FAX O	18			ទ្			2	ĝ		_	SOLVI	Ş	<b>4</b>		SPO	8 (8	3 ACR	S (SPE							£				
	PURCHASE ORDER #:	4			NUMBER OF	NWTPH-HCID		BTEXNWTPH-G	NWTPH-G	NWTPH-D <sub>x</sub>	1864 SGT-HEM	1664 HEM (O&G)		8260/624 VOA	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	8270 PAH/PMA	8082/608 PCB	TOTAL METALS ROBAS	TOTAL METALS (SPECIFY)	METAL	TCLP METALS (SPECIFY)		pH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	THE PARTY OF	SOLIDS (SPECIFY)				l
	Name and Address of the Control of t	Transfer of the second	TIME SAMPLED	MATRIX			A A	BTE	Z.	ZWZ Z	1864	1664		828	8	8270	827	8082	<u> </u>	βp	걸	2		¥ E	5	2	ا الح		3				
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Payment Terms: Net 30 days. Past due accounts subject to 11/2% per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

(Shipping Fee Applies)

RETURN SAMPLES

**NWC 001436** 

M99CS000569M Q1/06

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/28/2011 P.O.#: PC-5

Project: Seattle HB Yard
Client ID: Center Tank-Static

Northwest Cascade Inc.

P.O. Box 73399

Date Sampled: 06/22/2011

Puyallup, WA 98373

Date Received: 06/23/2011

Attn: Ron Inman

Spectra Project: 2011060493

Spectra Number: 2

 Analyte
 Result
 Units
 Method

 1,4-Dichlorobenzene
 <25</td>
 μg/L
 SW846 8260C

LCS Recovery = 87%. Method Blank result = <0.5 ug/L. Samples dijuted 1/50 prior to analysis due to sample matrix.

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

Page 2 of 7

# NW CASCADE

# SPECTRA Laborattories 2011

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

11/03/2011

Northwest Cascade Inc.

P.O. Box 73399

Puyallup, WA 98373

Project:

Sea HB Yard

Client ID:

Tank 5

Sample Matrix:

Water

Date Sampled:

11/02/2011

Date Received:

11/02/2011

Spectra Project: 2011110060

Spectra Number: 1

Rush

<u>Analyte</u>	<u>Result</u>	Units	Method
1,4-Dichlorobenzene	17	ug/L	SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	82	SW846 8260C
Dibromofluoromethane	104	SW846 8260C
Tohiene-d8	101	SW846 8260C
4-Bromofluorobenzene	81	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/sgh

2221 Ross Way • Tacoma, WA 98421

November 3, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011110060

Date Analyzed: 11/2/2011

Units: ug/L Applies to Spectra #'s: #1

Spiked Sample 2011110047-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
	<del>-</del>			1120011	70112	KESOLI		NED.
1,1-Dichloroethene		<1	10.00	9.13	91	9.25	93	1
Benzene		1.5	10.00	11.12	97	11.35	99	2
Trichloroethene		<1	10.00	9.96	100	9.37	94	6
Toluene		6.8	10.00	17.92	112	17.38	106	5
Chlorobenzene		<1	10.00	11.36	114	11.34	113	ō
(Results after dilution	1)							•
*Out of limits due to s	sample matrix effects.							
Surrogates			MS	MSD	мв	Method Blani	k	ug/L
	Dibromofluoromethane	е	99	102	98	1,4-Dichlorober	zene	<1
	1,2-Dichloroethane-d4	Ļ	111	112	112	-		
	Toluene-d8		107	108	109			
	4-Bromofluorobenzene	0	101	99	98			

# NWC 001440

(Shipping Fee Applies)

# **CHAIN of CUSTODY**

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e-MAIL:	253-405-6	:625	Prefer or e-M	FAX 🖸	S S	l_	9	2		Σ	0&G)		<u> </u>	SOL	} {	, m		ALS R	ALS (S	2   S	15) SJ	Ę					ECIFY				
PURCHASE	ORDER #:				NUMBER OF CONTAINERS	NWTPH-HCID	BTEX BTEX MINITEL C	DH.G	NWTPH-D <sub>x</sub>	1664 SGT-HEM	1664 HEM (O&G)		8260/624 VOA	8260 CHLOR SOLVENTS	8270 PAH/PNA	8082/608 PCB		TOTAL METALS RCRAS	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)	pH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT		SOLIDS (SPECIFY)				
	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX		_	BTEX	NWTPH-G	N E M	1664	1664		8260/	88   88 88   88	9270 8270	8082/		TOT	10T	2		Į.	TXT	TUR	FLAS	90 00 00 00	₽		<u>_</u>		
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#### **Wastewater Treatment Division**

Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

March 23, 2012

Ron Inman Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Dear Mr. Inman:

Results from King County's recent sampling indicate that wastewater from Northwest Cascade, Inc. - Seattle is in compliance with discharge limits. The results of the sample(s) taken on March 8, 2012 are enclosed.

NW CASCADE

MAR 2 8 2012

King County appreciates your compliance. If you have any questions, please call me at 206-263-3008.

Sincerely,

Tim Sifford Investigator

Industrial Waste Program

Enclosure(s)

#### Northwest Cascade, Inc. - Seattle

#### **Field Measurements**

Site#

A45341 - clean-out from solids separator

Sample Date

08-Mar-2012

Sample # Sample Code

L55230-2 Grab

Discharge Rate

Time Span NA Hour(s)

Start Time

1145

Parameters	CAS	Concentration	Units	Status
pH, Field		8.61	SU	Compliance

Mass Load	Units	Status	
NA		NA	

NA

#### Organics - VOA

Site #

A45341 - clean-out from solids separator

Sample Date

08-Mar-2012

Sample # Sample Code L55230-3

Grab

Discharge Rate

Time Span

NA

**Start Time** 

1145

Parameters	CAS	Concentratio	п	Units	Status
1,4-Dichlorobenzene	108-46-7	<rdl< td=""><td>12</td><td>UG/L</td><td>Compliance</td></rdl<>	12	UG/L	Compliance

Mass Load (	Jillo ·	Status
NA		NA

NA

#### Surcharge

Site #

A45341 - clean-out from solids separator

Sample Date Sample #

Sample Code

08-Mar-2012

L55230-1

Grab

Discharge Rate

Hour(s)

Time Span Start Time

NA 1145

Parameters	CAS	Concentration	Units	Status
Biochemical Oxygen Deman		6700	MG/L	NA
Total Suspended Solids		2040	MG/L	NA

Mass Load	Units	Status
NA NA		NA
NA		NA

NA

<sup>&</sup>lt;MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R¤Data judged unusable. B¤Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.</p>



2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

10/18/2011

Project:

Seattle HB Yard

Client ID:

Tank

Sample Matrix: Water

Date Sampled:

10/14/2011

Date Received: 10/14/2011

Spectra Project: 2011100408

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Result

Units

Method

1,4-Dichlorobenzene

172

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	76	SW846 8260C
Dibromofluoromethane	92	SW846 8260C
Toluene-d8	102	SW846 8260C
4-Bromofluorobenzene	80	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/sgh

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

October 18, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011100408 Date Analyzed: 10/17/2011

Units: ug/L Applies to Spectra #'s: #1

Spiked Sample 2011100399-1

GCMS VOLATILE ORGANIC ANALYSIS
Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichlorgethene		<1	10.00	6.47	65	6.56	66	4
3enzene		<1	10.00	9.29	93	9.03	90	3
richloroethene		<1	10.00	9.01	90	8.86	89	2
Toluene		<1	10.00	11.50	115	10.99	110	5
Chlorobenzene (Results after dilution)		<1	10.00	11.45	115	11.14	111	3
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		87	87	88	1,4-Dichlorobenze	ne	<1
	1,2-Dichloroethane-d4		95	96	98			
	Toluene-d8		116	116	116			
	4-Bromofluorobenzene		84	87	83			

# **SPECTRA** Laboratories

2011/00408

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PROJECT: Seattle HB Y	′ard						DR						Γ		RG/	-				ME	TA			11111		*******	*******	in the second	~~				HAN	GEL
CONTACT: Ron Inman				ERS													Ĭ	1	1		IM	LO				I	Τ	T		HER	<u>.</u> 1		7	Т
PHONE: 253-405-6625	FAX: 50	8-445-832	7	CONTAINERS										SE				#	A 8	3	80	3												
e-MAIL: ron@nwcascade.c	om	Prefer FA	broost [				φ		***************************************	_	6			OLVE	δ Ø				RCR	S (SPE	RCRA	SPEC							٤				1	l
PURCHASE ORDER # PC	- 5		X	SER OF	MWTPH-HCID		BTEX/NWTPH-G	9	ğ	1884 SGT-HEM	1664 HEM (FOG)		8260/624 VOA	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	8270 PAHIPNA	8 PCB		TOTAL METALS RCRA 8	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)		79045	X	≥	LNIO		SOLIDS (SPECIFY)					
SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX	NUMBER	NWT.	知	BTEX	NWTPH-G	NWTPH-Dx	1884 S	1664 H		3260/62	3260 CI	3270/62	\$270 P/	8082/808 PCB		OTAL	OTAL	CLPM	CLPM		PH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	800	SOTIO					
Tank	10/14	0500	grab	2				Ī	T	T			x		Ť		<u>"</u>	Ť		뒥			1	Δ.	H	<u>le</u> T		i æ	<u>o</u>	H			=	+
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Ron Inman directly.		MECINGUISHE	:D 81	نبا		4	1		2	<u></u>	e-		`	7	·ff		~	us	10	10	,	Nor	thv	ves	st C	`as	cac	911	41	201	1	19	4	5
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NWC 001445

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10/18/2011

Northwest Cascade Inc.

P.O. Box 73399

Puyallup, WA 98373

Project:

Seattle HB Yard

Client ID:

C471

Sample Matrix: Water

Date Sampled:

10/13/2011

Date Received:

10/14/2011

Spectra Project: 2011100409

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

245

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	75	SW846 8260C
Dibromofluoromethane	94	SW846 8260C
Toluene-d8	100	SW846 8260C
4-Bromofluorobenzene	80	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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October 18, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011100409 Date Analyzed: 10/17/2011

Units: ug/L

Applies to Spectra #s: #1 Spiked Sample 2011100399-1

GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	6.47	65	6.56	66	4
Benzene		<1	10.00	9.29	93	9.03	90	3
Trichloroethene		<1	10.00	9.01	90	8.86	89	2
Toluene		<1	10.00	11.50	115	10.99	110	5
Chlorobenzene (Results after dilution)		<1	10.00	11.45	115	11.14	111	3
Surrogates ·	Ph.D. di		MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		87	87	88	1,4-Dichlorobenzen	e	<1
	1,2-Dichloroethane-d4 Toluene-d8		95	96	98			
			116	116	116			
	4-Bromofluorobenzene		84	87	83			

Steven G. Hibbs Laboratory Manager

**NWC 001447** 

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CLIENT: Northwest Ca	ascade li	nc		ADI	ORE	SS:	PC	) B	OX	73	399	Pu	ıva	 Uttr	V	NA.	98	373	 L	******	-	-	<del>,,,,,,,</del> ,		*****		-	dooreni	***************************************	-		DRES	
PROJECT: Seattle HB Y	ard						/DR					T				VIC:		Ϊ		ET/	\LS				-	*********	ininamaki	بسننسد	5 50mm		CI	HANG	3EL_
CONTACT: Ron Inman				ERS			П	T	T	1	T	T	T	T	T	Ï	1	l	T	T:	LO							UII	HER	L T	1	Т	$\top$
PHONE: 253-405-6625	FAX: 50	8-445-832	7	CONTAINERS									940	2				A 8	3	0	٤						-						
e-MAIL: ron@nwcascade.co	em.	Prefer FA or e-MAII					တု	***************************************	distingential	_	6	I	5		5			SRCR	S (SPE	RCRA	(SPEC							3					
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SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRO	NUMBER OF	NWTPH-HCID	ATE A	BTEX/NWTPH-G	NWTPH-G	NWTPH-Dx	1664 SGT-HEM	1864 HEM (FOG)	ACM ACAMACA	SOCO OU DE COLUMNIE	SZZDRZĄ SERALYON	OCTO DALIMANA	SOBOJEOR DOR		TOTAL METALS RCRA 8	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)		PH 9040/9045	TX/TOX/EOX	TURBIOITY	FLASH POINT	800	SOLIDS (SPECIFY)					
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Ron Inman directly.  1.4 Dichloribenzene		RECEIVED BY	1	抓	)	7)	) k	D	-	-	**********	+	-	nd	-		Va Z	nc nc		רז	No.	rthy	ves 7	st C	as	<u>sad</u>	111	4	201	4	<u> 15</u>		<u>}_</u>
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NWC 001448

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10/18/2011

Northwest Cascade Inc.

P.O. Box 73399

Puyallup, WA 98373

Project:

Seattle HB Yard

Client ID:

C444

Sample Matrix:

Water

Date Sampled:

10/14/2011

Date Received:

10/14/2011

Spectra Project: 2011100410

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

1640

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	108	SW846 8260C
Dibromofluoromethane	95	SW846 8260C
Toluene-d8	116	SW846 8260C
4-Bromofluorobenzene	85	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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October 18, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011100410 Date Analyzed: 10/17/2011

Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2011100399-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene Benzens Trichloroethene Toluene Chlorobenzene (Results after dilution)	<1 <1 <1 <1	10.00 10.00 10.00 10.00 10.00	6.47 9.29 9.01 11.50 11.45	65 93 90 115 115	6.56 9.03 8.86 10.99 11.14	66 90 89 110 111	1 3 2 5 3

Surrogates	D1	MS	MSD	MB	Method Blank	ug/L
	Dibromofluoromethane	87	87	88	1,4-Dichlorobenzene	
	1,2-Dichloroethane-d4	95	96	98	44.000.000.000.00004.0004.400	
	Toluene-d8	116	116	116		
	4-Bromofluorobenzene	84	87	83		

# **SPECTRA** Laboratories

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STANDARD X RUSH

PROJECT: Seattle HB Yard												T				A 9	Ť	~		-		-		*******	ببنيت			***************************************	-	CH	ANG
CONTACT: Ron Inman	*******			SS		H) T	DR	OC	ARE	BON	S T	-	OI	RGA	NI	CS	4		ME	TAI	S	1	·	·	-	******	ОТІ	HER	) L		
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e-MAIL: ron@nwcascade.com		Prefer FA or e-MAIL					φ	1		_   6			OLVE	δ S	-			2	SP	200							2				
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10/18/2011

Northwest Cascade Inc.

P.O. Box 73399

Puyallup, WA 98373

Project:

Seattle HB Yard

Client ID:

C509

Sample Matrix: Water

Date Sampled:

10/14/2011

Date Received: 10/14/2011

Spectra Project: 2011100411

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

14

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	109	SW846 8260C
Dibromofluoromethane	95	SW846 8260C
Toluene-d8	120	SW846 8260C
4-Bromofluorobenzene	84	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

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October 18, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011100411 Date Analyzed: 10/17/2011

Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2011100399-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

			-				
OMPOUND	SAMPLE	SPIKE	MS	MS	MSD	MSD	
	RESULT	AMOUNT	RESULT	%REC	RESULT	%REC	RPE
1-Dichloroethene	<1	10.00	6.47	65	6.56	66	1
nzene	<1	10.00	9.29	93	9.03	80	3
chloroethene	<1	10.00	9.01	90	8.86	89	2
luene	<1	10.00	11.50	115	10.99	110	5
elorobenzene esults after dilution)	<1	10.00	11.45	115	11.14	111	3
ırrogates		MS	MSD	МВ	Method Blank		ug/L
Dibromofluoromethane 1,2-Dichloroethane-d4	-	87 95	87 96	88 98	1,4-Dichlorobenze	ne	<1
Toluene-d8		116	116	116			
4-Bromofluorobenzene	1	84	87	83			

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CLIENT: Northwest C	ascade li	nc		ADI	DRE	ESS:	. P	O E		73	339	9 P	IIV:	allı	ın	W	Δ Q:	327	2	++				***************************************	Virtuijolaas	*******			***************************************	-	AD	DRES	Sr
PROJECT: Seattle HB Y	′ard										DNS		-1		aea Rga			Ť					T	-			فمحمضة		<del></del>		C	HANG	EL
CONTACT: Ron Inman				ERS		T	T	Ì			1	П				right	 	+	Т"	T	AL:	<b>S</b>	1	T	Т	T		OTI	HER	<u> </u>	<b>-</b> T		Τ-
PHONE: 253-405-6625	FAX: 50	8-445-832	7	CONTAINERS										22				o	<u>ء</u>		<u>چ</u>						**************************************						
e-MAIL: ron@nwcascade.c		Prefer F/	XX 🗀	S S			φ			-	6			OLVEN	δ			V0/0	S PER S	BCRA 8	SPECI							4			a		
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SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX	NUMBER	NWTPH-HCID	BTEX	BTEX/NWTPH-G	NWTPH-6	NWTPH-DX	1684 SGT-HEM	1664 HEM (FOG)		8260/824 VOA	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	8270 PAH/PNA	8082/608 PCB	O VOTAL METALS OF COLUMN	TOTAL METALS (SPECIEVI	TCI P METALS RCBA 8	TO. P. METALS (SPECIFY)		PH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	BOD	SOLIDS (SPECIFY					
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2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

10/18/2011

Project:

Seattle HB Yard

Client ID:

C476

Northwest Cascade Inc.

Water

P.O. Box 73399

Sample Matrix:

10/14/2011

Puyallup, WA 98373

Date Sampled:

Date Received:

10/14/2011

Spectra Project: 2011100412

Spectra Number: 1

Analyte

Result

<u>Units</u>

Method

1,4-Dichlorobenzene

17

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	112	SW846 8260C
Dibromofluoromethans	99	SW846 8260C
Toluene-d8	125	SW846 8260C
4-Bromofluorobenzene	87	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

October 18, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011100412 Date Analyzed: 10/17/2011

Units: ug/L Applies to Spectra #'s: #1

Splked Sample 2011100399-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichlomethene		<1	10.00	6.47	65	6.56	66	1
Benzene		<1	10.00	9.29	93	9.03	90	3
Frichloroethene		<1	10.00	9.01	90	8.86	89	2
Toluene		<1	10.00	11.50	115	10.99	110	5
Chlcrobenzene (Results after dilution)		<1	10.00	11.45	115	11.14	111	3
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		87	87	88	1,4-Dichlorobenzen	ð	<1
	1,2-Dichloroethane-d4		95	96	98			
	Toluene-d8		116	116	116			
	4-Bromofluorobenzene		84	87	83			

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2011/04/12

PAGE	1	of	1
STANDARD	X	RU	SH

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CLIENT: Northwest Ca	ascade li	nc		ADI	DRE	SS:	PC	) B	ОХ	73	391	9 F	uv,	allı	ם.	W	A 9	83	73		A Prince		Andringspage	*****	**********	*****		ireconius	********	-	***************************************		ADDR		П
PROJECT: Seattle HB Y	ard							OC							RG/						ETA	16			******	-	-	**********	475.000				CHA	NGE	<u></u>
CONTACT: Ron Inman				ERS		Π					M					4141	Ĭ			INI		La			T	Г	<b>I</b>	T	OTI	HE!	₹ 	Т	Г	Г	Γ
PHONE: 253-405-6625	FAX: 50	8-445-832	7	CONTAINERS										2					8	SIFTY		3													
e-MAIL: ron@nwcascade.co		Prefer FA or e-MAII	XX 🔲				φ		WWW	2	(5)			8260 CHLOR SOLVENTS	VOA	٠			TOTAL METALS RCRA 8	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)							3	WWW					
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SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRD	NUMBER OF	NW/TPH-HCID	BTEX	BTEX/NWTPH-G	NWTPH-G	NWTPH-Dx	1684 SGT-HEM	1664 HEM (FOG)		8260/624 VOA	3260 CF	8270/625 SEMI VOA	8270 PAHIPNA	8082/808 PCB		OTAL #	OTALA	CLPM	CLPME		PH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	800	SOLIDS (SPECIFY)						
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2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

09/19/2011

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

Water Tower

Sample Matrix: Water

Date Sampled:

09/07/2011

Date Received:

09/09/2011

Spectra Project: 2011090174

Spectra Number: 1

Analyte 1,4-Dichlorobenzene Result

Units

Method

<1

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	88	SW846 8260C
Dibromofluoromethane	107	SW846 8260C
Toluene-d8	106	SW846 8260C
4-Bromofluorobenzene	109	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/bjn

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September 19, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011090174

Date Analyzed: 9/9/2011 Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2011090166-1

#### **GCMS VOLATILE ORGANIC ANALYSIS** Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	7.93	79	8.13	81	2
3enzene		2.4	10.00	12.71	104	12.50	101	2
Irichloroethene		<1	10.00	9.24	92	9.17	92	1
Toluene		3.5	10.00	14.92	114	14.90	114	ò
Chlorobenzene Results after dilution)		<1	10.00	10.93	109	10.96	110	Ö
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		96	98	100	1,4-Dichlorobenzen	9	<1
	1,2-Dichloroethane-d4		107	111	82			
	Toluene-d8		121	123	106			
	4-Bromofluorobenzene		122	117	107			

PECTRA Laboratories	201	11090	176

PAGE 1 of 1 STANDARD 2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

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PROJECT: Seattle I	HB Yard				L	НҮ	DRO	OCA	RB(	ONS	g	L,	OF	RG/	MI	cs			ME	TAI	.S	L	Linne				OTH	łER		111	
CONTACT: Ron Inm	an			CONTAINERS							- CONTRACTOR OF THE CONTRACTOR							NAME OF TAXABLE PARTY.											T		
PHONE: 253-405-6625	5 FAX: 50	08-445-832	7	MA									NTS	9				8 ₹		80 ef	2								***************************************		
e-MAIL: ron@nwcasca		Prefer FA or e-MAII	Received 5	P	ÇG		MPH-G	,		(FOG)		Κον	8260 CHLOR SOLVENTS	8270/825 SEMI VOA	PNA	908		TOTAL METALS RCRA 8	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	ICLP ME ALS (SPECIFY)	045	×	_	M		PECIFY)				
PURCHASE ORDER # SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX	NUMBER	NWTPH-HCID	BIEX EX	BTEX/NWTPH-G	NWIPH-G	1664 SGT-HEM	1664 HEM (FOG)		8260/624 VOA	8280 CHL	8270/625	8270 PAH/PNA	8082/608 PCB		TOTAL ME	TOTAL ME	TOLP ME	CLPME	PH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	800	SOUDS (SPECIFY)				
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09/19/2011

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

C 509 Water

Sample Matrix: Water

Date Sampled:

09/07/2011

Date Received:

09/09/2011

Spectra Project: 2011090178

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

6.2

 $\mu$ g/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	87	SW846 8260C
Dibromofluoromethane	105	SW846 8260C
Toluene-d8	108	SW846 8260C
4-Bromofluorobenzene	102	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/bjn

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September 19, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011090178 Date Analyzed: 9/9/2011

Units: ug/L. Applies to Spectra #s: #1

Spiked Sample 2011090166-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	7.93	79	8.13	81	2
Benzene		2.4	10.00	12.71	104	12.50	101	2
Trichloroethene		<1	10.00	9.24	92	9.17	92	1
Toluene		3.5	10.00	14.92	114	14.90	114	ò
Chlorobenzene (Results after dilution)		<1	10.00	10.93	109	10.96	110	ō
Surrogates	Dibromofluoromethane		MS	MSD	MB	Method Blank		ug/L
	1,2-Dichloroethane-d4		96	98	100	1,4-Dichlorobenzer	10	<1
	Toluene-d8		107	111	82			
	4-Bromofluorobenzene		121	123	106			
	Promonon pensene		122	117	107			

#### **SPECTRA** Laboratories

CLIENT:

PAGE	4	of	1
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7 /2011

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • **STANDARD** RUSH www.spectra-lab.com Northwest Cascade Inc ADDRESS: PO Box 73399 Puyallup, WA 98373 **ADDRESS** CHANGE Seattle HB Yard PROJECT: **HYDROCARBONS ORGANICS METALS OTHER** CONTAINERS CONTACT: Ron Inman (SPECIFY) OLVENTS PHONE: 253-405-6625 SPECIFY FAX: 508-445-8327 e-MAIL: ron@nwcascade.com

PURCHAS	SE ORDER # PC	- 5		X	SER C	NWTPH-HCIE		BTEX/NWTP	Ω Ω	Ϋ́	1864 SGT-HE	EM (FC		8260/524 VOA	CHI ON	SS SEN	PAMPN	8 PCB	SAETA	Neg Tak	METALS	ETALS		7,9045	Æ0X	È	N N		(SPEC					-
	SAMPLE ID ,	DATE SAMPLED	TIME SAMPLED	MATRIX		MWIN	BEX	BTEX	NWTPH-G	NWTPH-Dx	1664 S	1664 HEM		8260/6;	8280 C	8270/625	8270 P/	8082/608 PCB	TOTAL SACTAL		TOLPIN	TCLP METALS		PH 9040/9045	TX/TOX/EOX	TURBIDITY.	FLASH POINT	800	SOLIDS	l				
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Would like results e-mailed to RELINQUISHED BY Ron Inman directly. Northwest Cascad 7/ RECEIVED BY 1.4 Dichloribenzene RELINQUISHED BY

RECEIVED BY

Payment Terms: Net 30 days. Past due accounts subject to 1 1/2 % per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc. RETURN SAMPLES DISPOSE SAMPLES X (Shipping Fee Applies)

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09/19/2011

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

C 509

Sample Matrix: Water

Date Sampled:

09/09/2011

Date Received:

09/09/2011

Spectra Project: 2011090177

Spectra Number: 1

Analyte

Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Result

Units

Method

1,4-Dichlorobenzene

368

 $\mu g/L$ 

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	84	SW846 8260C
Dibromofluoromethane	104	SW846 8260C
Toluene-d8	105	SW846 8260C
4-Bromofluorobenzene	102	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/bjn

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

September 19, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011090177 Date Analyzed: 9/9/2011 Units: ug/L

Applies to Spectra #s: #1

Spiked Sample 2011090166-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	7.93	79	8.13	81	2
Benzene		2.4	10.00	12.71	104	12.50	101	2
Trichloroethene		<1	10.00	9.24	92	9.17	92	1
Toluene		3.5	10.00	14.92	114	14.90	114	ò
Chlorobenzene (Results after dilution)		<1	10.00	10.93	109	10.96	110	ō
Surrogates			MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		96	98	100	1,4-Dichlorobenzer	ne	<1  ───────────────────────────────────
	1,2-Dichloroethane-d4		107	111	82			
	Toluene-d8		121	123	106			
	4-Bromofluorobenzene		122	117	107			

# **SPECTRA** Laboratories

2011090177

PAGE 1

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STANDARD

CLIENT: Northwest Ca	scade Ir	nc	***************************************	ADI	DRE	SS:	PC	) Bo	эх 7	339	9 F	ouy.	allu	ıp,	W	A 98	337	3		************	~~~				*******		*********	-	**********		DRESS
PROJECT: Seattle HB Ya	ırd									ONS				lGA			T	-	WET	[AL	S	I	*****		************	*****	OTI	HEF	2		brace:
CONTACT: Ron Inman				CONTAINERS									T	T	T	T			T		Ī	T	П	T	T	Γ	Ĭ		Ì	T	TI
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Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

09/19/2011

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

C 420

Sample Matrix: Water

09/09/2011

Date Sampled:

Date Received: 09/09/2011

Spectra Project: 2011090176

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

82

μg/L

SW846 8260C

Surrogate	Recovery	Method
1,2-Dichloroethane-d4	84	SW846 8260C
Dibromofluoromethane	104	SW846 8260C
Toluene-d8	104	SW846 8260C
4-Bromofluorobenzene	105	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/bjn

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September 19, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011090176 Date Analyzed: 9/9/2011

Units: ug/L Applies to Spectra #'s: #1

Spiked Sample 2011090166-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

				_				
COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPE
,1-Dichloroethene		<1	10.00	7.93	70		04	
lenzene		2.4	10.00	12,71	79 104	8.13	81	2
richloroethene						12.50	101	2
		<1	10.00	9.24	92	9.17	92	1
Toluene		3.5	10.00	14.92	114	14.90	114	0
Chlorobenzene (Results after dilution)		<1	10.00	10.93	109	10.96	110	0
Surrogates			MS	MSD	МВ	Method Blank		ug/L
	Dibromofluoromethane		96	98	100	1,4-Dichlorobenze	ne	<u> </u>
	1,2-Dichloroethane-d4		107	111	82			
	Toluene-d8		121	123	106			
	4-Bromofluorobenzene		122	117	107			

## **SPECTRA** Laboratories

PAGE	1	of	1
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STANDARD RUSH

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Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

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09/19/2011

P.O.#:

PC-5

Project:

Seattle HB Yard

Client ID:

C 482

Sample Matrix: Water

Date Sampled:

09/09/2011

Date Received:

09/09/2011

Spectra Project: 2011090173

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

367

μg/L

SW846 8260C

Surrogate	Recovery	Method		
1,2-Dichloroethane-d4	84	SW846 8260C		
Dibromofivoromethane	104	SW846 8260C		
Toluene-d8	110	SW846 8260C		
4-Bromofluorobenzene	103	SW846 8260C		

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/bjn

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September 19, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011090173 Date Analyzed: 9/9/2011

Units: ug/L Applies to Spectra #'s: #1

Spiked Sample 2011090166-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND		SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene		<1	10.00	7.93	79	8.13	81	2
Benzene		2.4	10.00	12,71	104	12.50	101	2
Trichloroethene		<1	10.00	9.24	92	9.17	92	1
Toluene		3.5	10.00	14.92	114	14.90	114	Ö
Chlorobenzene (Results after dilution)		<1	10.00	10.93	109	10.96	110	Ö
1 T	<b>10</b> 10		MS	MSD	MB	Method Blank		ug/L
	Dibromofluoromethane		96	98	100	1,4-Dichlorobenzer	10	<1
	1,2-Dichloroethane-d4		107	111	82			
	Toluene-d8		121	123	106			
	4-Bromofluorobenzene		122	117	107			

# **CHAIN of CUSTODY**

# **SPECTRA** Laboratories

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PAGE	1 of	1
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STANDARD X RUSH

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PROJECT: Seattle HB	Yard								AR				,			ICS			-	ETA	10			*******	***********	*********		# SEE SEA		GHA	ANGEL
CONTACT: Ron Inman				RS							T	1	T	Ť	T	ľ	Π		1811		L	$\dashv$	T	T	T	Т	OTI-	1ER	-	<del></del>	TT
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Northwest Cascade Inc.

Puyallup, WA 98373

P.O. Box 73399

Attn: Ron Inman

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/28/2011

P.O.#: Project: PC-5

Client ID:

Seattle HB Yard

C 420-Outlet Baffle

Sample Matrix:

Aqueous

Date Sampled:

06/22/2011

Date Received:

06/23/2011

Spectra Project: 2011060493

Spectra Number: 6

Analyte

Result

Units

Method

1,4-Dichlorobenzene

35

μg/L

SW846 8260C

LCS Recovery = 87%. Method Blank result = <0.5 ug/L. Samples diluted 1/50 prior to analysis due to sample matrix.

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a5/mlh

Page 6 of 7

# **CHAIN of CUSTODY**

# **SPECTRA** Laboratories

PAGE	1	of	1

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**STANDARD** 

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PROJECT: Seattle HB `	<u>Yard</u>		-			Н	DR	oc	AR	ВО	NS			RG	AN	cs			ME	ETA	LS				1.54		OTI	1ER	****	Since services	<del>1974)), 616</del>
CONTACT: Ron Inman		******************************		CONTAINERS									T		I						T	T	T	T	T	Τ	Ĭ			T	П
PHONE: 253-405-6625	FAX: 50	8-445-832	7	ITAIN								ı	185	-	l			80 80	CIFY)	80	3			-							
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SPECIAL INSTRUCTIONS/COM					II		챚	78							RIN	EDN	L IAME					CON	I IPAN	<u> </u>	<u></u>		DA.	<u>l</u> .	<u> </u>	L_L TIN	<u> </u>
would like these results a separate report. Woul		RELINQUISHE	D BY		$\Delta \Delta$	WA	M		4	M	~	- R	อทส	ald li	nma	an	***************************************	- ALL THE REAL PROPERTY	· POWELLA	T	Vorti	าพค	et (	:ae	car			23/1	1	******	AW
them e-mailed to Ron In	man	RECEIVED BY	•	M.			l "	例	>-	*******		and the same	STATE OF THE PARTY.	nd	-	/	R	, ,,	$\overline{}$	T	-	KC	-	3	var		1	7/11	1	and desired the second	<u>////</u> /
directly.	1.4	RELINQUISHE	D BY	IT		7	1	t			***********	1	PU	MA.	<u>a</u> 1		/14		<u> </u>	$\dashv$	$\gamma$	KL	WA			-44	120	111	14/	0/	<del>nero bibliod</del> á
Dichloribenzene		RECEIVED BY				+++++		- in the second			**********			********			+++++	- Contract		+				<del>tita ara</del>				**********	-		
RETURN SAMPLES DISPOSE ( (Shipping Fee Applies)	SAMPLES X	Payment Ter attorney's fee	ms: Net 3	0 day	/s. P	ast d	ue a	ccou	ints rec	subj	ect to	1 1/2 f whe	% p	per m	onth	inter	est.	Cu	stom	er a	jrees	to pa	y all	cost	s of	colle	ction	inclu	l n gnik	 Basor	nable

NWC 001474



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www.spectra-lab.com

06/13/2011

P.O.#:

PC5

Project:

Seattle HB Yard

Client ID:

Outlet Seattle Yard

Northwest Cascade Inc.

Sample Matrix: Water

P.O. Box 73399

Date Sampled: 06/09/2011

Puyallup, WA 98373

Attn: Ron Inman

Date Received:

06/09/2011

Spectra Project: 2011060209

Spectra Number: 1

Analyte

Result

Units

Method

1,4-Dichlorobenzene

1090

μg/L

SW846 8260C

Date Analyzed 6/10/11. LCS recovery = 106%. Method Blank result <1 ug/L.

Surrogate	Recovery	Method
Dibromofluoromethane	108	SW846 8260C
1,2-Dichloroethane-d4	106	SW846 8260C
Toluene-d8	96	SW846 8260C
4-Bromofluorobenzene	96	SW846 8260C

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/sgh

Page 1 of 1

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June 13, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyaliup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011060209

Date Analyzed: 6/10/2011 Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2011060220-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
					A State of the Sta		The same of the sa
1,1-Dichloroethene	<1	10.00	7.57	76	7.68	77	1
Benzene	<1	10.00	11.35	114	11.97	120	, E-
Trichloraethene	<1	10.00	11.13	111	11.92		5
Toluene	1.3	10.00				119	7
			11.29	100	11.40	101	1
Chlorobenzene	<1	10.00	9.97	100	9.64	96	3
(Results after dilution)							•

Surrogates

	MS	MSD
Dibromofluoromethane	106	104
1,2-Dichloroethane-d4	100	101
Toluene-d8	95	92
4-Bromofluorobenzene	102	100

Steven G. Hibbs Laboratory Manager

#### **CHAIN of CUSTODY SPECTRA** Laboratories 2011060209 2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com STANDARD RUSH CLIENT: NOME 1105 (450666 ADDRESS: Seattle HAJGER **HYDROCARBONS ORGANICS METALS** OTHER CONTACT: TOTAL METALS (SPECIFY) TCLP METALS (SPECIFY) PHONE: 253 405 6625 FAX: 508 445 8 3260 CHLOR SOLVENTS TOTAL METALS RCRAB TCLP METALS RCRA 8 8270/625 SEMI VOA B-MAIL: SOMB OUL/COSCOLE, COM 1664 HEM (0&G) 1664 SGT-HEM 8260/624 VOA 8082/608 PCB TX/TOX/EOX PURCHASE ORDER #: NWTPH-D<sub>X</sub> SOLIDS SAMPLE ID MATRIX SAMPLED SAMPLED outlet seattly work 6/4/11/500 TOB 6 7 SPECIAL INSTRUCTIONS/COMMENTS: PRINTED NAME DATE Jeff NLSIONSKI RELINQUISHED BY MINI 1.4 Dichlorobenzene RECEIVED BY

NWC 001477

DISPOSE SAMPLES

RETURN SAMPLES

(Shipping Fee Applies

Payment Terms: Net 30 days. Past due accounts subject to 11/2% per month interest. Customer agrees to pay all costs of collection including reasonable

attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.



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06/06/2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373 P.O.#: PC5

Project: Seattle HB Yard
Client ID: Outlet Seattle Yard

Sample Matrix: Aqueous
Date Sampled: 05/25/2011
Date Received: 05/25/2011
Spectra Project: 2011050548

Spectra Number: 1

Analyte	Result	Units	Method
Chloroform	<10	μg/L	SW846 8260C
Chloromethane	<10	μg/L	SW846 8260C
Dibromomethane	<10	μg/L	SW846 8260C
Dichlorodifluoromethane	<10	μg/L	SW846 8260C
Ethyl Acetate	990	μg/L	SW846 8260C
Ethylbenzene	<10	μg/L	SW846 8260C
Hexachlorobutadiene	<10	μg/L	SW846 8260C
Iodomethane	<50	μg/L	SW846 8260C
Isopropylbenzene	<10	μg/L	SW846 8260C
Methyl-tert-Butyl Ether	<10	μg/L	SW846 8260C
Methylene chloride	<10	$\mu$ g/L	SW846 8260C
Naphthalene	<10	μg/L	SW846 8260C
Styrene	<10	μg/L	SW846 8260C
Tetrachloroethene	<10	μg/L	SW846 8260C
Toluene	<10	μg/L	SW846 8260C
Total Xylenes	<20	μg/L	SW846 8260C
Trichloroethene	<10	μg/L	SW846 8260C
Trichlorofluoromethane	<10	μg/L	SW846 8260C
Vinyl Acetate	<100	μg/L	SW846 8260C
Vinyl chloride	<10	μg/L	SW846 8260C
cis-1,2-Dichloroethene	<10	μg/L	SW846 8260C

Analyte	Result	Units	Method
cis-1,3-Dichloropropene	<10	μg/L	SW846 8260C
n-Butylbenzene	<10	μg/L	SW846 8260C
n-Propylbenzene	<10	μg/L	SW846 8260C
sec-Butylbenzene	<10	μg/L	SW846 8260C
tert-Butylbenzene	<10	μg/L	SW846 8260C
trans-1,2-Dichloroethene	<10	μg/L	SW846 8260C
trans-1,3-Dichloropropene	<10	µg/L	SW846 8260C

Surrogate	Recovery	Method
Dibromofluoromethane	121	SW846 8260C
1,2-Dichloroethane-d4	129	SW846 8260C
4-Bromofluorobenzene	113	SW846 8260C
Toluene-d8	95	SW846 8260C
SPECTRA LABOR	ATORIES	

Steve Hibbs, Laboratory Manager a14/sgh

Page 2 of 2

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June 6, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample Matrix: Water EPA Method: 624/8260C Spectra Project: 2011050548 Date Analyzed: 6/3/2011 Units: ug/L

Applies to Spectra #'s: #1

Spiked Sample 2011050548-1

#### GCMS VOLATILE ORGANIC ANALYSIS Matrix Spike/ Matrix Spike Duplicate Results

COMPOUND	SAMPLE RESULT	SPIKE AMOUNT	MS RESULT	MS %REC	MSD RESULT	MSD %REC	RPD
1,1-Dichloroethene	<1	10.00	12.50	125	12.99	130	
Benzene	<1	10.00	11.35	114	11.19	112	4
Trichloroethene	<1	10.00	10.89	109	10.71	107	,
Toluene	<1	10.00	10.28	103	10.71	107	4
Chlorobenzene (Results after dilution)	<1	10.00	9.91	99	10.22	102	3

Surrogates		MS	MSD
	Dibromofluoromethane	112	114
	1,2-Dichloroethane-d4	119	121
	Toluene-d8	96	96
	4-Bromofluorobenzene	109	110

Steven G. Hibbs Laboratory Manager

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June 6, 2011

Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

Sample matrix: Water

Spectra Project: Spectra # Date Received:
Date Analyzed:
Dilution:
< = less than
2011050548

Method Blank

5/25/2011 6/3/2011 1

VOLATILE ORGANIC ANALYSIS			ETHOD 624/8260
Celone	ug/L < 10.00	Compound	ug/L
Acrolein		1,2-Dichloropropane	< 1.00
Acrylonitrile	< 10.00	1,3-Dichloropropane	< 1.00
Renzene	< 10.00	cls-1,3-Dichloropropene	< 1.00
Sromobenzene	< 1.00	trans-1,3-Dichloropropane	< 1.00
romoderzene Promochloromethane	< 1.00	2,2-Dichloropropane	< 1.00
	< 1.00	1,1-Dichigropropene	< 1.00
bromodichloromethane	< 1.00	Ethylbenzene	< 1.00
Promoform	< 1.00	2-Hexanone (MBK)	< 10.00
romomethane	< 1.00	Hexachlorobutadlana	
-Butanone (MEK)	< 10.00	Iodomethane	< 1.00
-Butylbenzene	< 1.00	Isopropylbergene	< 5.00
ec-Butylbenzene	< 1.00		< 1.00
art-Butylberizene	< 1.00	p-Isopropylloluene	< 1.00
arbon Disulfide	< 5.00	Methylene chloride	< 2.00
arbon tetrachloride	< 1.00	4-Methyl-2-pentanone (MIBK)	< 10.00
Norobenzene	< 1.00	MTBE	< 1.00
hlorodibromomethane		Naphthalene	< 1.00
higraethane	< 1.00	n-Propylbenzene	< 1.00
-Chloroethyl Vinyl ether	< 1.00	Styrene:	< 1.00
hloroform	< 5.00	1,1,1,2-Tetrachioroethane	< 1.00
horomethane	< 1.00	1,1,2,2-Tetrachioroethane	< 1.00
-Chlorotoluene	< 1.00	Tetrachloroethene	< 1.00
	< 1.00	Toluene	< 1.00
Chlorotoluene	< 1.00	Total Xvienes	< 2.00
2-Dibromo-3-Chloropropane (DBCP)	< 10.00	1,2,3-Trichlorobenzene	< 1.00
2-Dibromoethane (EDB)	< 1.00	1,2,4-Trichlorobenzene	< 1.00
ibromomethane	< 1.00	1,1,1-Trichloroethans	< 1.00 < 1.00
2-Dichlorobenzene	< 1.00	1,1,2-Trichlorgethane	
3-Dichlorobenzene	< 1.00	Trichlorpethene	< 1.00
4-Dichlorobenzene	< 1.00	Trichlorofluoromethene	< 1.00
chlorodifluoromethane	< 1.00	1,2,3-Trichloropropane	< 1.00
1-Dichforoethane	< 1.00	1,2,4-Trimethylbenzene	< 1.00
2-Dichloroethane	< 1.00		< 1.00
1-Dichloroethene	< 1.00	1,3,5-Trimethylbenzene	< 1.00
s-1.2-Dichloroethene	< 1.00	Vinyl Acetate	< 10.00
ins-1,2,-Dichloroethene	< 1.00	Vinyl chloride	< 1.00
JRROGATE RECOVERIES			
bromofluoromethane	117 %		
2-Dichloroethane-d4			
	127 %		
luene-d8	97 %		
3romofluorobenzene	112 %		

Steven G. Hibbs Laboratory Manager

# **CHAIN of CUSTODY**

# **SPECTRA** Laboratories

2011050548

PAGE of

M99CS000569M 01/06

2221 Ross Way • Tacoma, WA 9842	~~~	253) 272	-4850	) •	· ]	Fax (	(253)	572	2-98	38		ww	v.spe	ctra-	lab.con	1			ST	AN	DA	\R[	)	X,				RU	SH	
CLIENT: North west cascale	Konstalation i		ADD	RES	<u> </u>	****				-							******	******										***************************************	on a second	
PROJECT: Seattle HB yard					HY	ORC	OCA	RB	ON	NS.	Ι	С	RG	ANI	cs	Τ	М	ET/	ALS			1111111	*******		C	тн	ER	medicina	-	
CONTACT: ROW INMAN			RS				T	I			T	T	T	T		T	Te	T						Г	H		Ŧ	T	$\top$	TT
PHONE: 253 415 66.25 FAX: 253 8	348 Z3	399	CONTAINERS								ı	ENTS	سا ا			RAB	ECIFI	8 48	E											
e-MAIL:	Prefer F or e-M/		8			φ T			2	&G)	I,	SOLV	Į Š	<b></b>	_	SRC	S (SP	RCR.	S (SPE				i			ZEZ)			-	
PURCHASE ORDER #: PC 5			님	H-HOEL		WTP	σ	주 무	GT-HE	EM (0	2	HOH	25 SEA	AHIPN	8 PC	METAI	METAL	ETAL!	ETAL		3/9045	EOX	ίΤΥ	POINT		(SPE				
SAMPLE ID DATE SAMPLED S	TIME SAMPLED	MATRIX	NUMBER OF	NWTPH-HCID	втех	BTEXNWTPH-G	NWTPH-G	NWTP	1664 SGT-HEM	1664 HEM (O&G)	ACM NOW	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	8270 PAH/PNA	8082/608 PCB	TOTAL METALS RCRAB	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)		pH 9040/9045	TX/TOX/EOX	TURBIDITY	FLASH POINT	вор	SOLIDS (SPECIFY)				
Outlet seattle xxxx 5/25	1330	gruß	2								X																$\exists$	$\exists$	Ħ	TT
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SPECIAL INSTRUCTIONS/COMMENTS:	DEL MA	***************************************	T	_		SIGNA	***********				T				ED NAME						******	IPAN'					DATE			TIME
1.4 Dichlorobenzene	<b> </b>	JISHED BY	1	分	4	O) Tw	2	72	4	И_	13	د(	<u> </u>	$\frac{\lambda}{t}$	hsro	FYK	<u> </u>	_	M	W	C	450	a l	بد		51	25	<i>i</i>	15	00
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and the second s	J L										1	~		*******		*******	*****	$\perp$			********			Series in terms			33754cm			<u> </u>
RETURN SAMPLES DISPOSE SAMPLES (Shipping Fee Applies)	attorney	it Terms: 's fees a	Net 3 Ind all	othe	ys. F er co	ast o	due a f coll	acco ectic	unts on re	s subj egard	ject to lless o	11/2 of wh	% pe	r mo suit	nth inte is filed	rest. in Pi	Cust erce	tome Co.,	r ag WA	rees vent	to p	ay a Spec	ll co tra A	sts c I <i>nal</i> y	of co	llection of the lecti	on inc	cludir	ig rea	asonable

ੀ ਤੋਂ King County: S Hinds CSS sample results (June 2011)

KC Locator			A01101	A01107	A00817	A00903
IH No.			057-010	056-086	956-084	057-008
C Sample No.			L52476-1	L53458-1	1.53458-2	L53458-3
latrix			SH IN-LINESED	SH IN-LINESED	SH IN-LINESED	SH IN-LINESED
ate			01/20/11	06/20/11	06/20/11	06/20/11
imeSpan:				0.5	0.5	0.5
otalSolid:			39.5	82.1	80.2	31.7
arameters	SQS/LAET C	SL/2LAET				Mara.
otal solids (%)			39.5	82.1	80.2	31.7
letals (mg/kg)	***************************************		***************************************			······································
Intimony, Total, ICP	150	200	2.8 <re< td=""><td>DL., 10.1 J</td><td>72.8 J</td><td>2.4 U.J</td></re<>	DL., 10.1 J	72.8 J	2.4 U.J
rsenic, Total, ICP	57	93	6.3 <rc< td=""><td></td><td></td><td></td></rc<>			
admium, Total, ICP	5.1	6.7	1,94	1.41	6.27	0.5 <rdl< td=""></rdl<>
chromium, Total, ICP	260	270	72.9	160 J	THE THE TAXABLE	11.3 J
obalt, Total, ICP			8,66	9.45 J	12 J	2.47 J
Copper, Total, ICP	390	390	172 J	7.93 J		50.8 J
ead, Total, ICP	450	530	273 J	2,780 J	- 1210 J	83 J
lercury, Total, CVAA	0.41	0.59	273 3 481 J	129		0.076 <rdl< td=""></rdl<>
folybdenum, Total, ICP	0.41	0.03	8,58			
lickel, Total, ICP	140	140	8.36 74.2	11.7 J	26,6 J	1.3 <rdl< td=""></rdl<>
acker, rotar, ICP Selenium, Total, ICP	140	140	74.2 3 U	168	388	13
	0.50	0.50		1.6 U	1.5 U	3.8 U
Silver, Total, ICP	0.56	0.56	2.73 J	2/58		0.63 U
hallium, Total, ICP	للسند للسندست	مراطب أستت سنساطنس	4.8 U	2.4 U	2.5 U	6.3 U
/anadium, Total, ICP		بسيبين فيستناه سنا	34,2	20.8 J	31.2 J	<b>11.4</b> J
inc, Total, ICP	410	960	833	400 J	<b>602</b> J	230 J
rganic compounds (ug/kg, dw)	to see the seed to see to see the see at teas	d constitution of the constitution	ed to med considerate objects of cognitions will be according to the considerate of the c			
cenaphthene	500	500	81 U	39 U	40 Ü	100 U
cenaphthylene	1,300	1,300	81 U	39 U	40 U	100 U
nthracene	960	960	110 <re< td=""><td></td><td></td><td>100 U</td></re<>			100 U
luorene	540	540	100 <re< td=""><td>DL 44 <rdl< td=""><td>. 40 U</td><td>100 U</td></rdl<></td></re<>	DL 44 <rdl< td=""><td>. 40 U</td><td>100 U</td></rdl<>	. 40 U	100 U
laphthalene	2,100	2,100	81 U	39 U	40 U	100 U
henanthrene	1,500	1,500	699	227	96	180 <rdl< td=""></rdl<>
otal LPAH	5,200	5,200	909	324	96	180 <rdl< td=""></rdl<>
lenzo(a)anthracene	1,300	1,600	501	172	152	100 U
Benzo(a)pyrene	1,600	1,600	504	152	212	100 U
Benzo(b,j,k)fluoranthene	3,200	3,600	1,000	350	474	100 U
Benzo(g,h,i)perylene	670	720	229	105	176	100 U
Chrysene	1,400	2,800	567	219	202	100 U
Xibenzo(a,h)anthracene	230	230	81 U	39 U	57 <rdl,< td=""><td></td></rdl,<>	
luoranthene	1,700	2,500	914 J	441	269	160 <rdl< td=""></rdl<>
ndeno(1,2,3-Cd)Pyrene	600	690	219	85	147 J	100 U
vrene	2,600	3,300	906 J	388	246	213
otal HPAH	12,000	17,000	4,840 J	1,910	1,940	374
Aroclor 1016	12,000	17,000	41 U	1,310	1,340	314
Aroclor 1221			41 U			
Aroclor 1232			41 U	and transferrations of the contract of the con		
vroctor 1242			410 U.T.			يتينني التحالف باستاسالسا لسنشته
vodor 1248				<u> </u>		
			183			Annual State of the same
rocior 1254			458			TO THE CONTRACT CONTR
krocier 1260			271			
otal PCBs	130	1,000	942			*With the state of
is(2-Ethylhexyl)phthalate	1,300	1,900	8.250	2,240	<b></b>	47450
utylbenzylphthalate	63	900	899	124	156	248
liethylphthalate	200		160 U	78 U	80 U	842
imethylphthalate	. 71	160	160 U	78 U	80 U	200 U
ii-n-butylphthalate	1,400	1,400	280 <re< td=""><td></td><td>80 U</td><td>200 U</td></re<>		80 U	200 U
i-n-octylphthalate	6,200		160 U	78 U	80 U	200 U
,2,4-Trichlorobenzene	31	51	4 U	10	4 U	10 U
,2-Dichlorobenzene	35	50	8 U	64 U	66 U	167 U
,2-Diphenylhydrazine	- and - control of the control of th		160 U			······································
,3-Dichlorobenzene	and through head throat throat regions	hand throught house commission	8 U			
,4-Dichlorobenzene	110	110		380.000 J	<b>THE REPORT</b> J	<b>273803</b>
.4,5-Trichlorophenol			410 U		MINORE MANAGEMENT AND ASSESSMENT OF THE PROPERTY OF THE PROPER	. ALLEGA STATE OF THE STATE OF

SHinds\_KCdata.xlsx 2011

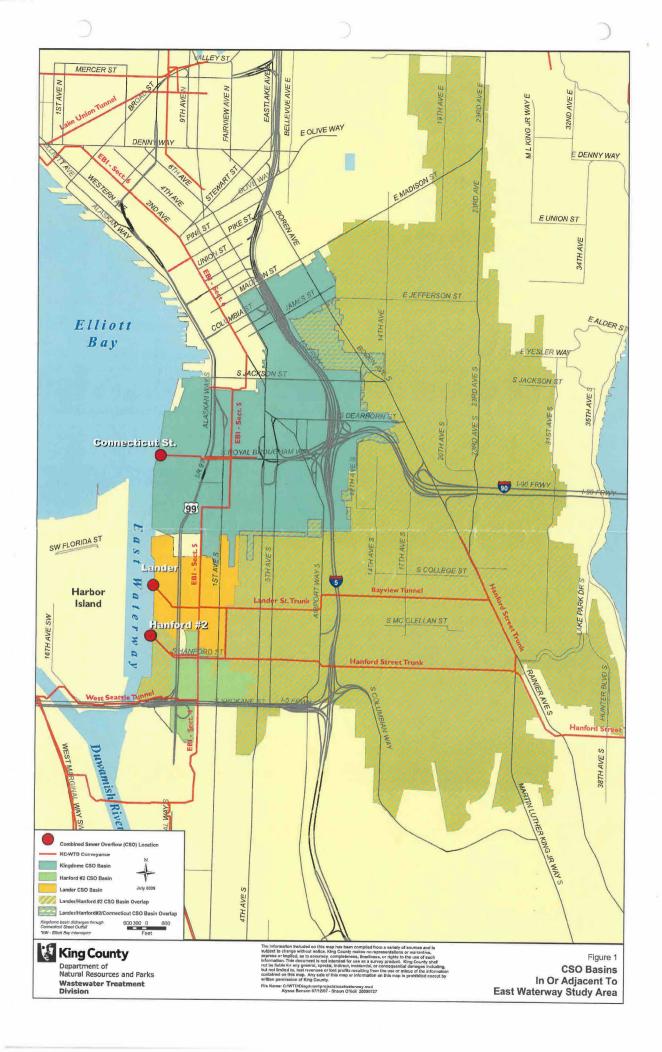
#### King County: S Hinds CSS sample results (June 2011)

CC Locator			A01101	A01107	A00817	A0(40)
IH No.		- 7.100	057-010	056-088	086-084	057-008
(C Sample No.		75.0	L52476-1	L83486-1	L83488-2	151458-3
latrix			SH IN-LINESED	SH IN-LINESED	SH IN-LINESED	SH IN-LINESED
late			01/20/11	06/20/11	08/20/11	06/20/41
imeSpan:				**************************************	VV/44/13	unavi i
otalSolid:			30 K	274		
arameters	SQS/LAET CS	LJ2LAET		343	90,4	23.4
4,6-Trichlorophenol			410 U			
,4-Dichlorophenol			410 U			
4-Dimethylphenol	29	29	41 U	39 U	40 U	100   1
4-Dinitrotoluene		***************************************	410 U		700	100 0
6-Dinitrotoluene			410 U			
Chloronaphthalene			160 U	/m//		
Chlorophenol	ti		160 U	······		
-Methylnaphthalene	670	670	100 ≪RDL	39 U	40 U	100 U

#### TCLP test results: A01107.

Project Locator SPU MH No. Sample No. Matrix Date Parameters	HW Threshold	423368-110-4 A01107 056-086 L53458-1 LQ TCLP LEACH 6/20/11 0:00 Value		MDL	RDL	Units
Metals (ug/L)	······································		**********			
Arsenic, Total, ICP	5,000	25	U	25	125	ug/L
Barium, Total, ICP	100,000	200		1	5	ug/L
Cadmium, Total, ICP	1,000	10.2	J	2	10	ug/L
Chromium, Total, ICP	5,000	28.3	B3,J	3	15	ug/L
Lead, Total, ICP	5,000	3,740	J	20	100	ua/L
Mercury, Total, CVAA	200	0.05	U	0.05	0.1	ug/L
Selenium, Total, ICP	1,000	25	Ü	25	125	ug/L
Silver, Total, ICP	5,000	4	Ü	4	20	ug/L
Organic Compounds	· · · · · · · · · · · · · · · · · · ·	of Magazin an angles was a suspension and a control of the		*************		
1,4-Dichlorobenzene	7,500	20,300	J	120	200	ug/L
2,4,5-Trichlorophenol	400,000	4	U	4	8	ug/L
2,4,6-Trichlorophenol	2,000	4	U	4	8	ug/L
2,4-Dinitrotoluene	130	0.4	U	0.4	0.8	ug/L
2-Methylphenol		10	U	10	20	ug/L
3,4-Methylphenol		16	<rdl< td=""><td>10</td><td>20</td><td>ug/L</td></rdl<>	10	20	ug/L
Hexachlorobenzene	130	0.6	U	0.6	1	ug/L
Hexachlorobutadiene	500	1	Ų	1	2	ug/L
Hexachloroethane	3,000	10	U	10	20	ug/L
Nitrobenzene	2,000	1	U	1	2	ug/L
Pentachlorophenol	100,000	1	U	1	2	ug/L
Pyridine	5,000	60	U,J	60	100	ug/L

SHinds\_KCdata.xlsx



#### Marty Diklich

From: Schmoyer, Beth [Beth.Schmoyer@seattle.gov]

Sent: Thursday, November 10, 2011 2:27 PM

To: Marty Diklich

Cc: Sifford, Jim; Strong, Despina Subject: S Hinds St combined sewer cleaning

Attachments: Solids\_hand-disp\_landfill.pdf; Solids\_hand-disp\_incin.pdf; Solids\_hand-disp\_SPU.pdf; History

649681.pdf; ExhibitD-2.pdf

Marty, attached are 3 cost estimates. All cover solids handling and disposal only. Option 3 is provided to show the difference in cost between normal line cleaning operations and this case where the material classifies as hazardous waste.

- Solids\_hand-disp\_landfill: treatment and disposal at a Subtifie C hazardous waste landfill. This looks to be the least expensive option. It involves having waste disposal vendor treat the material onsite to reduce 1,4-dichlorobenzene levels to below 60 mg/kg so that it can be disposed in a hazardous waste landfill. We have gotten approval from Ecology to classify this material as soil, so it is subject to the higher land disposal requirement (60 versus 5 mg/kg).
- 2. Solids\_hand-disp\_incin: direct incineration.

Note that both 1 & 2 will require additional sampling/analysis of material removed from the pipe to document waste characteristics prior to disposal. I am waiting for info from both vendors to determine what type of sampling will be required. Sampling costs are not included in the cost estimates.

3. Solids\_hand-disp\_SPU: typical City costs for handling/disposing non-contaminated material removed during line clean projects.

I've included a work order history report from SPU Field Operations documenting line cleaning operations in this area over the past 5-6 years. The section of line between MH057-008 and MH057-003 (see attached map) has been cleaned 5 times in the past 6 years (April 2008, October 2008, January 2009, April 2011, June 2011). Keys to the

405: jet cleaning by SPU crews 466: jet cleaning by contractor

489: CCTV by contractor

WAPPR: waiting approval CM: corrective maintenance PM: preventative maintenance

INSP: inspection

ENV: environmental issue

NCN: new construction/installation

Please call me at (206) 386-1199. As I mentioned on the phone this morning, SPU would like to clean this line in 2011. We have a contractor ready to begin work as soon as early next week.

### NORTHWEST CASCADE, INC Company Profile

4/2000	NWC begins portable sanitation operations at 3414 1/2 Second Avenue 5 in Seattle.
1/2001	KCIW Procedures Manual contains discharge warning levels for organic compounds based on occupational standards and Henry's Law constants Warning Level for 1,4DCB = $3500\mu\text{g/L}$
1/17/2001	NWC submits first Waste Discharge Permit application NWC identifies only one product in use Product identification MSDS does not contain 1,4DCB (NWC later discloses that they were using the deodorant blocks containing 1,4DCB since the beginning of operations)
2/3/2001	KC issues Major Discharge Authorization No. 4008-01 DA requires compliance with KC Code and KC Local Limits
4/28/2003	Letter from KCIW to NWC - Notification of Surcharge Assessment
8/21/2003	KCIW data letter, NWC in compliance with BOD, TSS, pH
9/9/2004	KCIW data letter, NWC in compliance with BOD, TSS, pH
7/19/2005	NWC submits application for DA renewal Application states no change in the character of pollutants discharged to the municipal sewer system
10/19/2005	KCIW data letter, NWC in compliance with BOD, TSS, pH
10/26/2005	KCIW data letter, NWC in compliance with BOD, TSS, pH
1/4/2006	KC issues Major Discharge Authorization No. 4008-02 DA requires compliance with KC Code and KC Local Limits
6/14/2006	KCIW data letter, NWC in compliance with BOD, TSS, pH
6/5/2007	KCIW data letter, NWC in compliance with BOD, TSS, pH
11/2/2007	KCIW approves special request to discharge wastewater from Pier 66 at Seattle location. Analysis shows wastewater does not contain 14DCB
2/20/2008	KCIW data letter, NWC in compliance with BOD, TSS, pH
2/24/2009	KCIW data letter, NWC in compliance with BOD, TSS, pH
2/24/2009	KCIW requests current product identification MSDS forms from NWC

	One product not previously reported, identified as 'deodorant blocks', contains paradichlorobenzene (99%)
9/24/2009	KCIW data letter, NWC exceeds KC organic compound discharge warning level for 1,4DCB in wastewater (KCIW warning level = 3500 $\mu$ g/L, measured 4570 $\mu$ g/L)
4/1/2010	Letter from NWC to KCIW NWC sets target date of May 1, 2010 to remove product containing 1,4DCB from operational process
4/22/2010	KCIW data letter, NWC in compliance with BOD, TSS, pH, and 1,4DCB (1,4DCB concentration = <20 $\mu g/L)$
8/8/2010	NWC submits application for DA renewal Product identification MSDS forms do not contain 1,4DCB
1/20/2011	KC issues Major Discharge Authorization No. 4008-03 DA requires compliance with new organic chemical screening level for 1,4DCB and semi-annual self-monitoring reporting New screening level is 25 $\mu\text{g/L}$
5/24/2011	KCIW data letter, NWC exceeds KC organic compound screening level for 1,4DCB in wastewater (KCIW screening level = 25 $\mu$ g/L, measured 29 $\mu$ g/L)
7/7/2011	NWC semiannual self-monitoring report in compliance with 1,4DCB (reported <25 $\mu g/L)$
8/29/2011	NWC discloses that they were using the deodorant blocks containing 1,4DCB since the beginning of operations

#### King County East Waterway Source Control Investigation 1.4 Dichlorobenzene

1996 – 1997	KC Hanford CSO whole water data (1,4DCB concentration levels <1.0 μg/L)
2004	KC Hanford CSO whole water data (1,4DCB concentration levels range 17 - 79 μg/L)
3 to 7/2008	KCIW collects whole water samples from locations (3) in the KC Hanford Trunk for East Waterway Source Control characterization
7/23/2008	KCIW collects whole water sample(1) from SPU lateral sewer connection to Hanford Trunk. Lateral drainage basin includes S Hinds Street and NWC Sample has elevated level of 1,4DCB
8/20/2008	KCIW collects in-line sediment samples from locations(3) in the KC Hanford Trunk for. East Waterway Source Control characterization
2/24/2009	KCIW requests current product identification MSDS forms from NWC One product not previously reported, identified as 'deodorant blocks', contains paradichlorobenzene (99%)
4/27/09	KCIW collects whole water samples at locations(4) in SPU combined sewer in S Hinds Street for source control investigation of 1,4DCB, including a sample(1) of NWC effluent
9/1/2009	KCIW collects in-line sediment samples from locations (4) in the Hanford Trunk for East Waterway Source Control characterization
9/24/2009	KCIW data letter, NWC exceeds KC organic compound discharge warning level for 1,4DCB in wastewater (KCIW screening level = 3500 $\mu$ g/L, measured 4570 $\mu$ g/L)
10/16/2009	KCIW meeting with NWC to explain significance of 1,4DCB in the East Waterway
2/22/2010	${\bf NWC\ informs\ KCIW\ of\ intent\ to\ discontinue\ the\ use\ of\ product\ containing\ 1,4DCB,\ but\ requests\ they\ be\ allowed\ to\ exhaust\ current\ supply}$
3/17/2010	Letter from KCIW to NWC – Response to Proposal to Eliminate Release of 1,4DCB Letter includes request to meet to discuss removal of contaminated sediments
4/1/2010	Letter from NWC to KCIW NWC sets target date of May 1, 2010 to remove product containing 1,4DCB from operational process
4/22/2010	KCIW data letter, NWC in compliance with BOD, TSS, pH, and 1,4DCB $(1,4DCB concentration = <20                                  $

9/28/2010	KCIW meeting with NWC to discuss removal of contaminated in-line sediment SPU sewer line in S Hinds Street
10/18/2010	Letter from KCIW to NWC – Removal of Contaminated Sediment from Sewer System Follow-up from meeting held at KCIW, KC requests NWC remove contaminated sediment from the sewer system
12/3/2010	NWC notifies KCIW of intent to clean the sewer line, but wants written correspondence from KC that they will be released of any future liabilities in the matter
1/13/2011	Letter from KCIW to NWC No Further Action Required – Response to Remove Contaminated Sediment from the Municipal Sewer System KCIW informs NWC that upon notification that the sediment has been removed and disposed of properly, KC will take no further action in regards NWC discharge of 1,4DCB to the sewer system
1/13/2011	KC informs NWC of SPU requirements for line cleaning
3/2/2011	Telephone conversation between Jim Sifford (KC) and Tom Rogers (NWC) NWC has reservations about unforeseen liability and cost of line cleaning
3/24/2011	NWC offers \$4000 to reimburse the City to clean the line
3/24/2011	Telephone conversation between Despina Strong (KC) and Tom Rogers (NWC) Discuss sewer line cleaning
6/20/2011	KCIW collects additional in-line sediment samples at locations in S Hinds Street to update condition of sediments for disposal

Combined sewer line cleaning: S Hinds St and E Marginal Wy S (SPU lines only) Sediment handling/disposal costs for SPU lines Waste Management

ltem .	Units	Unit Cost	Quantity	Cost	Notes
Equipment rental				***************************************	
(2) 20,000 gal tanks	MO	\$1,960	2	\$3.920	Baker tank rental charges from 7/11
Delivery/pickup	EA	\$200	2	\$400	The second secon
(1) 25 CY box filter	MO	\$1,400	2	\$2,800	Baker tank rental charges from 7/11
Delivery/pickup	EA	\$200	2	\$400	The state of the s
Pumps	MO	\$2,000	2	\$4,000	Godwin pump rental charges from 7/11
Delivery/pickup	EA	\$150	2	\$300	
Misc hoses/connections/supplies*	LS	\$1,200	1	\$1,200	The second secon
Subtotal				\$13,020	
Contractor labor					
Set up decant system	HR	\$165	20	\$3,306	Labor hrs from 7/11 S Hinds St SD cleaning
Operate/maintain system	HR	\$165	100	\$16,530	Labor hrs from 7/11 S Hinds St SD cleaning
Disassemble equipment	HR	\$165	10	\$1,653	Labor hrs from 7/11 S Hinds St SO cleaning
Subtotal		***************************************	***************************************	\$21,489	The state of the s
Sediment disposal <sup>b</sup>	***************************************	***************************************	***************************************		······································
High				******************************	
Transportation	CY	\$100	65	\$6,499	Waste Management <sup>5</sup>
Organic recovery unit	TN	\$459.09	97	\$44,754	Waste Management <sup>b</sup>
Landfill	TN	\$141.69	97	\$13,813	Waste Management <sup>b</sup>
1 CY box	EA	\$80.00	78	\$6,239	A 40010 Million Augustusia
State refuse tax (3.6%)				\$2,567	Waste Management <sup>6</sup>
<u>ow</u>	********************		***************************************	**************************************	Attists matievaluem
Transportation	CY	\$100	.5	\$474	Waste Management <sup>b</sup>
Organic recovery unit	TN	\$459.09	7	\$3,264	Waste Management <sup>b</sup>
.andfill	TN	\$141.69	7	\$1,007	Waste Management <sup>b</sup>
CY box	EA	\$80.00	6	\$455	NABOZE MINITERITED IF
State refuse tax (3.6%)			reconstruction distribution	\$187	Waste Management <sup>b</sup>
Subtotal (high)	***************************************	***************************************	***************************************	\$73.872	PRODUCE RIGHTSHEET TO THE PRODUCE OF
Subtotal (low)				\$5,201	
Vaste profile	EA	\$75	3	\$225	Waste Management <sup>b</sup>
Total (high)	***************************************			\$108,606	PERSON REPURSIENTE
Contingency (20%)			to the Leading	\$21,721	The state of the s
Tax (9.5%)		on the second days are an in the con-	/	\$12,381	
Total (high)	***************************************	***************************************		\$142,708	
Otal (low)		**********		\$39,935	
Contingency (20%)		······································		\$7.987	AND THE RESERVE OF THE PARTY OF
ax (9.5%)		······	leeve roombaaagaaand	\$4.563	
otal (low)	***************************************		<del></del>	\$52,474	
				\$04,4/4	

cost\_est.xlsx cost-SPU\_lfill

NWC 001491

11/10/2011

Includes hoses, valves, plastic sheeting, tank liner, pipe, misc supplies
 November 10, 2011 quote from Waste Management
 Treatment at organic recovery unit to meet 60 mg/kg landfill requirement for soil
 Transportation at \$100/CY box. Min \$150, Full van load = \$1,550
 3.6% Washington State refuse tax

Combined sewer line cleaning: S Hinds St and E Marginal Wy S (SPU lines only) Sediment handling/disposal costs for SPU lines Clean Harbors

Item	Units	Unit Cost	Quantity	Cost	Notes
Equipment rental		***************************************		•	
2) 20,000 gal tanks	MO	\$1,960	2	\$3,920	Baker tank rental charges from 7/11
Delivery/pickup	EA	\$200	2	\$400	
1) 25 CY box filter	MO	\$1,400	2	\$2,800	Baker tank rental charges from 7/11
Delivery/pickup	EA	\$200	2	\$400	The state of the s
Pumps	MO	\$2,000	2	\$4,000	Godwin pump rental charges from 7/11
Delivery/pickup	EA.	\$150	2	\$300	
Misc hoses/connections/supplies*	LS	\$1,200	1	\$1,200	
Subtotal			******************************	\$13,020	
Contractor labor	**************	***************************************			······································
let up decant system	HR	\$165	20	\$3,306	Labor hrs from 7/11 S Hinds St SD cleaning
Operate/maintain system	HR	\$165	100	\$16,530	Labor hrs from 7/11 S Hinds St SD cleaning
Disassemble equipment	HR	\$165	10	\$1.653	Labor hrs from 7/11 S Hinds St SD cleaning
Subtotal	, , , , , , , , , , , , , , , , , , ,		lan die des	\$21,489	3,33,33
ediment disposal <sup>b</sup>		***************************************		***************************************	
ligh			pour approximation of the		and the state of t
ransportation	TN	\$0	97	\$0	Clean Harbors <sup>b</sup>
cineration	LB	\$0.60	194,970	\$116,046	Clean Harbors <sup>b</sup>
TU surcharge	18	\$0.00	194,970	\$0	- NEWLINGTOILE
CY flex bin	EA	\$70.00	78	\$5,459	Clean Harbors <sup>b</sup>
ccessories	EA	\$0	3	SO.	Liner, cleanout
DW		***************************************			
ransportation	TN	\$0	7	\$0	Clean Harbors <sup>b</sup>
ncineration	L8	\$0.60	14.220	\$8,464	Clean Harbors <sup>b</sup>
TU surcharge	LB	\$0.00	14.220	\$0	\$0.05 to \$0,15 depending on BTLI value of waste
CY flex bin	EA	\$70.00	6	\$398	Clean Harbors <sup>5</sup>
ccessories	EΑ	\$0	2	SO.	Liner, cleanout
ubtotal (high)				\$121,505	
ubtotal (low)	***************************************			\$8,862	······································
otal (high)	***************************************	***************************************	~~~~~	\$156,014	
ontingency (20%)				\$31,203	**************************************
ariable recovery fee (4.5%)				\$8.425	Fuel fee
ax (9.5%)				\$17,786	orani Titi (T.T.) too too oo too oo oo oo oo oo oo oo oo
ots! (high)	***************************************			\$213,428	
otal (low)				\$43,371	
ontingency (20%)	liseenmeenmee	Philippine regional resignation to the second		\$8,674	and a second control of the second control o
ariable recovery fee (4.5%)			Section to the section of	\$2.342	Fuel fee
ax (9.5%)			Control Control Control Control	\$4,944	t del las
otal (low)			<del></del>	\$59,331	
<u> </u>				849'991	

Includes hoses, valves, plastic sheeting, tank liner, pipe, misc supplies
 November 9, 2011 bit from Clean Harbors:
 Incineration at \$892.8571 per flex bin (1,500 lbs max per container or surcharged)
 Transportation price included in disposal price
 4.5% recovery fee based on DOE national average diesel price applied to total invoice

cost\_est.xlsx

11/10/2011



#### Costs for handling non-contaminated material removed from SPU mainlines

**NWC 001493** 

Assumptions:
Only covers sediment handling and disposal. Line cleaning is not included Activities involved in handling/disposal:

Drive vactor truck from line cleaning site to SPU decant facility

Unload vactor truck at SPU decant facility

Return to line cleaning site

Bail pit, load dried solids, and haul to Waste Management for disposal 1.5 HR <==from Gary Lockwood (11/04/11) \$50.00 TN

Waste Management disposal fee:

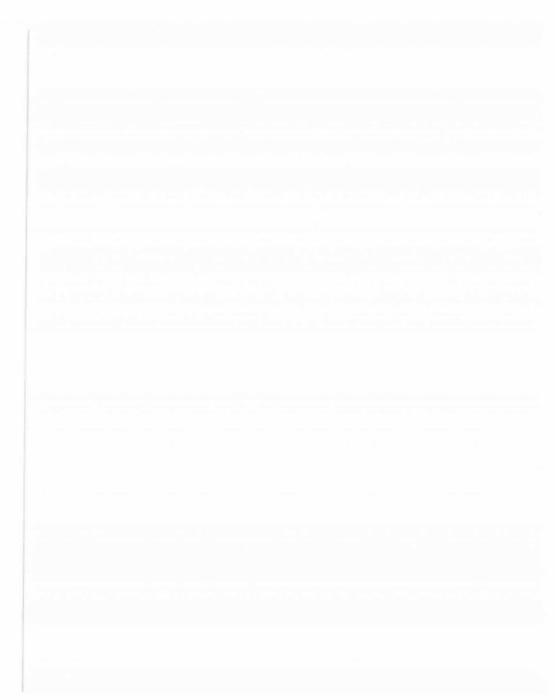
OH (a) \$38.65 HR \$47.97 HR \$42.74 HR Vactor truck \$38.65 <==from Tom Mellor (11/08/11) Lead worker \$29.98 1.6 1.6 Worker \$26.71 <==from Tom Meilor (11/08/11)

(a) OH = overhead. Includes benefits, sick leave, vacation

Item	Units	Unit Cost	Quantity	Cost	Notes
Drive to SPU decant, unload, return to site					
Vactor truck	HR	\$38.65	32	\$1,247	Assume 8 CY per vactor + increase sediment volume by factor of 2 to account for water added during jetting
Labor	HR	\$90.70	32	\$2,926	- James
Load solids, haul to disposal site	TN	\$50.00	129	\$6,452	from Gary Lockwood 11/04/11
Disposal fee	TN	\$37.50	129	\$4,839	2011 Waste Management fee
Subtotal				\$15,465	as it is said management lee
Tax (9.5%)				\$1,469	
Total				\$16.934	

\$37.50 TN

cost\_est.xlsx SPU\_costs 11/10/2011



#### **Asset History Report** EQNUM: 649681 Description: COMBINED MAIN LINE - 057-008 057-003 057\_WW Description: MAP 057 - WASTEWATER MAIN LINES ADDR LOC: 3400 2ND AVE S Equip Spec Mainline US ENDPOINT ID: 057-008 US ENDPOINT TYPE: MH US METERED? N DS ENDPOINT ID: 057-003 DS ENDPOINT TYPE: MH DS METERED? N PARALLEL: US DEPTH: 6.5 US BURIED? N USE: COMB DS DEPTH: 4.8 DS BURIED? N MATERIAL: VC PIPE SHAPE: CIR RELINE TYPE: PIPE WIDTH: 12 TILE: 121 PIPE HEIGHT: 12 CRITICAL: CASING? N LENGTH: 131.03 CUNETTE? N SLOPE: 0.0021 DIST TO HYDRANT FROM DS # OF INCOMING MAINS: 1 FLOW: GRAVITY PM Schedule **PMID** Description FREQ FREQUNIT LastComp Next Due 179779 CCTV COMBINED MAIN LINE - 057-008 057-MONTHS 7/26/2011 1/1/2017 JET CLEAN COMBINED MAIN LINE - 057-008 MONTHS 4/15/2011 4/15/2013 057-003 **WO History** Last Labor **WONUM** DWACT **WOStatus** PM? WKType Report ActComp Charge Date Units Cmp JobDelay 2972771 476 WAPPR NCN 11/4/2011 Problem: Severity: 2726310-2 405 CLOSE CM 7/28/2011 7/28/2011 7/28/2011 131 CLNGREQ Problem SLUDGE Severity: HEAVY 2839474 466 WAPPR 7/14/2011 Problem: Severity: 2839455 489 WAPPR INSP 7/14/2011 Problem: Severity: 2726310-1 405 CLOSE CM 6/13/2011 6/28/2011 6/28/2011 131 CLNGREQ Problem: DEBRIS Severity: HEAVY 2726310 480 CLOSE Y 4/18/2011 7/26/2011 7/28/2011 130 CLNGREQ Problem Severity: LIGHT 2709278 405 CLOSE 3/31/2011 4/15/2011 4/15/2011 131 Problem: DEBRIS Severity: MEDIUM: 2379111 413 CLOSE INSP 6/1/2010 6/1/2010 6/1/2010 1 Problem: NOPROB Severity: 1780265-2 405 CLOSE 1/30/2009 1/30/2009 1/30/2009 131 Problem: DEBRIS Severity: HEAVY 1780265 413 CLOSE INSP 1/28/2009 1/28/2009 1/28/2009 1 Problem NOPROB Severity: 1683482 413 CLOSE INSP 10/29/2008 10/29/2008 10/29/2008 1 Problem: NOPROB Severity: 1666288-1 405 CLOSE CM 10/23/2008 10/30/2008 10/30/2008 131 Problem **DEBRIS** Severity: HEAVY 1666288 413 CLOSE INSP 10/22/2008 10/22/2008 10/22/2008 1 Problem: RISE 1420204 3/27/2008 4/6/2008 4/6/2008 405 CLOSE 131 Problem DEBRIS Severity: HEAVY 801070 413 CLOSE ENV 12/15/2005 12/14/2005 UNK Severity: Page 1 of 1 Created by: doylek Monday, November 07, 2011







Moved in to The yard	
started dumping into sewe	er on property

number of trucks based at the location

4/1/2000	0 -	1 11		
need file	7	7 -//		
	Route	P & D	Sales	
4/1/2000	?	?	?	
4/1/2001	?	?	?	
4/1/2002	?	?	?	
4/1/2003	?	?	?	
4/1/2004	?	?	?	
4/1/2005	?	?	?	
4/1/2006	?	?	?	
4/1/2007	?	?	3	
4/1/2008	?	?	?	
4/1/2009	?	?	?	
4/1/2010	?	?	?	
4/1/2011		8	1	2



#### Comments:

We have been using the same provider and type of urinal blocks from before April 2000 until we transitioned to non Para blocks about spring/summer of 2010 Paradichlorobenzine primarily disipates into the air.

When submerged in water it stops disipating into the air.

Small pieces of them can fit through the urinal tube.

Urinal tubes vary in size and function for allowing them to fall into the tank.

it is possible that some of the product can be carried into the waste tank with the urine.

Event units have never had urinal blocks as part of that type of service.

We could probably get historical data of how many gallons of waste was dumped at that location by every 2 month increments.

Some of the gallons that were dumped there was from other locations. IE Flohawks hauling in form Puyallup

For the first few years we were there we hand carried the products needed to Seattle from Puyallup

Some time in 2005 we started inventorying these products in Seattle and restocking monthly See attached

over the years we have taken product form there for needs at other locations, and added to there from other locations

when there is normal weather all of the sewage goes into the sewer treatment plant.

in times of high precipitation, the sewage can overflow into the open waters.

The sewers in that area flow are comingled with the storm and surface water runoff

How much of the wasteflow gets into the open waterways would be very difficult to detect.

prevoius to the testing by government agency last year, what other sources could have conributed to the contamination?

other portable toilet operators have operated in the area. And perhaps had dump stations

Month	2004	2005	2006	2007	2008	2009	2010	2011
January		16	18	26	26	15	25	17
February		23	15	24	16	15	8	22
March		26	21	23	31	20	23	24
April		29	28	33	31	25	20	20
May		29	41	43	31	30	9	17
June		55	42	36	41	39	42	34
July		10	42	66	56	44	22	26
August		32	63	46	20	40	27	23
September		29	26	46	39	35	17	31
October	36	32	44	36	34	24	25	
November	28	16	27	31	26	12	19	
December	22	19	19	?	16	24	22	
Cases of urinal blocks	86	316	386	410	367	323	259	214
144 urinal blocks in a case								

non para were shipped to Seattle starting April 2010

#### DIRECTIONS:

- \* Save this file as a "template" in order to always have a blank template available.
- \* You may also set up your own "templates" for re-occuring projects. To do this enter in the data that will remain the same (Client, project, tests) and save it with a name related to that project. (for example Quarterly Stormwater)
- \* This file is designed for projects with up to 40 samples in ONE PROJECT (Please don't try to use pages 2, 3 or 4 for other projects, start with a new file). Samples 1 to 10 will go onto page 1, (see bottom left corner of screen for additional worksheets). The client and project information from page one will copy to pages 2, 3 & 4, all you will need to do is add the sample and test information. Once you have entered all the client and sample information print a copy, **it is important the chain of custody accompanies the samples to the laboratory**. The Chain of Custody will need to be relinquished (signed by a representative of your company) and we will receive it and make a copy for you. A copy will also be sent with your results.

**CHAIN of CUSTODY** 

PAGE1 of1	
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STANDARD	X	RUSH	

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

CLIENT: Northwest Ca	ascade Ir	nc		ADE	DRE	SS:	РО	В	ox <sup>-</sup>	73:	399	9 P	uya	allu	p, <b>'</b>	W	4 98	337	'3													1	ADDR CHA		
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#### CHAIN of CUSTODY PAGE 4 **SPECTRA** Laboratories **STANDARD** 2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com Northwest Cascade Inc. ADDRESS: PO Box 73399 Puyallup, WA 98373 CLIENT: CHANGE PROJECT: Seattle HB Yard **HYDROCARBONS ORGANICS METALS OTHER** CONTAINERS CONTACT: Ron Inman OTAL METALS (SPECIFY) **ICLP METALS (SPECIFY)** 3260 CHLOR SOLVENTS OTAL METALS RCRA 8 CLP METALS RCRA 8 PHONE: 253-405-6625 FAX: 508-445-8327 664 SGT-HEM (TPH) 3270/625 SEMI VOA SOLIDS (SPECIFY) STEX/NWTPH-G 664 HEM (FOG) e-MAIL: ron@nwcascade.com or e-MAIL NUMBER OF 3270 PAH/PNA TESTING 8260/624 VOA 3082/608 PCB -LASH POINT PH 9040/9045 3700 XOT/X TURBIDITY **ACCURACY** NWTPH-G PURCHASE ORDER # PC - 5 AGAIN AGAIN AGAIN AGAIN SAMPLE ID MATRIX SAMPLED SAMPLED SPECIAL INSTRUCTIONS/COMMENTS: PRINTED NAME COMPANY SIGNATURE TIME RELINQUISHED BY Ronald Inman Northwest Cascad 06/23/11 RECEIVED BY RELINQUISHED BY RECEIVED BY

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attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

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#### **DIRECTIONS:**

- \* Save this file as a "template" in order to always have a blank template available.
- \* You may also set up your own "templates" for re-occuring projects. To do this enter in the data that will remain the same (Client, project, tests) and save it with a name related to that project. (for example Quarterly Stormwater)
- \* This file is designed for projects with up to 40 samples in ONE PROJECT (Please don't try to use pages 2, 3 or 4 for other projects, start with a new file). Samples 1 to 10 will go onto page 1, (see bottom left corner of screen for additional worksheets). The client and project information from page one will copy to pages 2, 3 & 4, all you will need to do is add the sample and test information. Once you have entered all the client and sample information print a copy, it is important the chain of custody accompanies the samples to the laboratory. The Chain of Custody will need to be relinquished (signed by a representative of your company) and we will receive it and make a copy for you. A copy will also be sent with your results.

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#### CHAIN of CUSTODY PAGE 4 **SPECTRA** Laboratories **STANDARD** 2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com Northwest Cascade Inc. ADDRESS: PO Box 73399 Puyallup, WA 98373 CLIENT: CHANGE PROJECT: Seattle HB Yard **HYDROCARBONS ORGANICS METALS OTHER** NUMBER OF CONTAINERS CONTACT: Ron Inman 'OTAL METALS (SPECIFY) CLP METALS (SPECIFY) 3260 CHLOR SOLVENTS OTAL METALS RCRA 8 TCLP METALS RCRA 8 PHONE: 253-405-6625 FAX: 508-445-8327 270/625 SEMI VOA SOLIDS (SPECIFY) 664 HEM (FOG) STEX/NWTPH-G e-MAIL: ron@nwcascade.com or e-MAIL 8270 PAH/PNA 664 SGT-HEM 3260/624 VOA 3082/608 PCB -LASH POINT 3708 XOT/X TURBIDITY NWTPH-G ACCURACY PURCHASE ORDER # PC - 5 AGAIN AGAIN AGAIN AGAIN SAMPLE ID MATRIX SAMPLED SAMPLED SPECIAL INSTRUCTIONS/COMMENTS: PRINTED NAME COMPANY SIGNATURE TIME RELINQUISHED BY 0 Northwest Casca 7/ /2011

Payment Terms: Net 30 days. Past due accounts subject to 1 1/2 % per month interest. Customer agrees to pay all costs of collection including reasonable

attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

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RETURN SAMPLES

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#### NWC 001510

(Shipping Fee Applies)



**Wastewater Treatment Division** 

Industrial Waste Program

Department of Natural Resources and Parks 130 Nickerson Street, Suite 200 Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001 TTY Relay: 711

September 26, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Tom Rogers Northwest Cascade Inc. P.O. Box 73399 Puyallup, WA 98373

RE: a. Removal of Contaminated Sediment from the Municipal Sewer System, letter from Jim Sifford (King County) to Tom Rogers (Northwest Cascade), October 18, 2010

b. In-line Sewer Sediment Removal, email from Tom Rogers to Jim Sifford, July 20, 2011

NW CASCADE

SFP 3 0 2011

Dear Mr. Rogers:

During the past year, King County and Northwest Cascade have been in discussion regarding the removal of in-line sediment contaminated with 1,4-dichlorobenzene from the municipal sewer system. As a follow up to our last correspondence (reference b), this letter is to inform you of more recent information acquired by King County that impacts both the removal costs and the County's decision to ensure that the sediment removal occurs by the end of October 2011.

King County recently sampled material from the combined sewer lines downstream of Northwest Cascade to evaluate disposal options for the sediment in these lines. Due to the concentration of 1,4-dichlorobenzene, the sediment in the lines has been designated as dangerous waste due to failure to pass the toxicity characteristic leaching procedure (TCLP) test required to determine suitability for disposal at a solid waste landfill. This recent information acquired by King County indicates that the disposal cost for in-line sediment will be substantially higher than originally forecast, since the sediments must be disposed of at a facility licensed to accept material designated as dangerous waste.

As long as in-line sediment containing the pollutant 1,4-dichlorobenzene remains in the combined sewer line downstream of Northwest Cascade, there exists a source of pollution that contributes to sediment contamination or could cause future recontamination within the East Waterway of the Duwamish River. During heavy rains, high flows in the combined sewer system that remobilize those sediments can also result in discharges to the East Waterway from combined sewer overflows.

Tom Rogers September 26, 2011 Page 2

Therefore, King County is repeating its request originally made in our letter to Northwest Cascade dated October 18, 2010 (reference a), that Northwest Cascade remove and dispose of the contaminated sediment. Northwest Cascade must contact operations staff from Seattle Public Utilities and King County to determine the requirements for this project. Please call Beth Schmoyer of Seattle Public Utilities at 206-386-1199 or email her at beth.schmoyer@seattle.gov. For King County operations please contact me directly.

Because of the impending rainy season when combined sewers typically overflow, this cleanup must occur as soon as practical. If Northwest Cascade does not make arrangements with Seattle Public Utilities and King County to clean the portions of the combined sewer system as outlined below within 15 days of receipt of this letter, King County and Seattle Public Utilities will conduct the line cleaning and disposal of sediments, and then take steps to recover the cost of this line cleaning and sediment disposal from Northwest Cascade.

The in-line sediment contaminated with 1,4-dichlorobenzene will need to be removed from the following portions of the municipal sewer system:

- The portion of combined sewer line located in South Hinds Street between East Marginal Way South and Second Avenue South (approx. 2,200 feet, 12-30 inch pipe)
- The portion of combined sewer line located in East Marginal Way South between South Hinds Street and South Hanford Street (approx. 700 feet, 36 inch pipe)
- The portion of King County combined sewer trunk line located in South Hanford Street between East Marginal Way South and the west side of East Marginal Way South at Port of Seattle Terminal 25 (approx. 400 feet, 150 inch pipe)

Our goal is to remove these sediments in a timely manner to prevent unnecessary contamination of the sediments in the East Waterway. King County would like to meet with representatives of Northwest Cascade at your earliest convenience to discuss the removal of these contaminated sediments from the municipal sewer system.

If you have any questions about the requirements in this letter, please call me at 206-263-3008 or email me at jim.sifford@kingcounty.gov. Thank you for helping to support our mission to protect public health and enhance the environment.

Sincerely,

dim Sifford

Compliance Investigator

cc: Bill Blakney, King County Prosecuting Attorney Office

Ron Inman, Northwest Cascade Inc.

Beth Schmoyer, Seattle Public Utilities

Despina Strong, King County Industrial Waste Program

#### **Tom Rogers**

From:

Sifford, Jim [Jim.Sifford@kingcounty.gov]

Sent:

Monday, July 18, 2011 3:03 PM

To:

Tom Rogers

Subject:

RE: in-line sewer sediment removal

Follow Up Flag: Follow up

Flag Status:

Red

Tom,

The City of Seattle is planning to clean the sewer line in S Hinds Street within the next month. King County and the city will share the cost and we would like to include your offer of \$4000. Please let me know what it will take to get this done. Do you need an invoice or something in writing for the payment. We will respond that there will be no additional requirements for NW Cascade in this matter.

Sincerely,

Jim Sifford
King County Industrial Waste Program
Office: 206-263-3008
jim.sifford@kingcounty.gov
www.kingcounty.gov/industrialwaste

From: Tom Rogers [mailto:tomr@nwcascade.com]

Sent: Wednesday, March 23, 2011 2:15 PM

To: Sifford, Jim

Cc: Mark Perry; Marty Diklich; Ron Inman; JR Inman

Subject: RE: in-line sewer sediment removal

Jim

I have discussed this with our team and agreed that NWC would offer up to \$4000.00 to reimburse the City of Seattle to clean the line. We need to bring closure to this issue, so it must be stipulated that NWC will have no further liabilities or additional requirements placed on them relating to the previous use and elimination from the waste stream of 1,4-Dichlorobenzene. Will await your response to this offer. Thank you

Tom Rogers
Northwest Cascade Inc.
PO Box 73399
10412 John Bananola Way E
Puyallup, WA 98373
800-444-2371
(b) (6) 5 Cell
253-845-2545 Fax
www.nwcascade.com

From: Sifford, Jim [mailto:Jim.Sifford@kingcounty.gov]

Sent: Wednesday, March 02, 2011 2:32 PM

To: Tom Rogers

Subject: FW: in-line sewer sediment removal

Tom.

Based on our phone conversation the other day, I understand NWC has some concerns regarding cleaning the sewer line in question.

- Unforeseen liability to NWC in the event that the sewer line is somehow damaged during the cleaning operation, and
- The potential for unknown (higher) cost for disposal of the solids, depending on analytical results if required.

Would NWC consider simply reimbursing the City for their cost of cleaning and disposal? If not, please state what conditions NWC is seeking in order to schedule the line cleaning operations.

Thanks,

Jim

206-263-3008

From: Sifford, Jim

Sent: Monday, February 28, 2011 9:01 AM

To: Tom Rogers

Subject: FW: in-line sewer sediment removal

Tom,

Any update on the status of this project?

Jim

206-263-3008

From: Sifford, Jim

Sent: Thursday, January 13, 2011 11:18 AM

To: 'Tom Rogers'

Cc: Mark Perry; Marty Diklich; JR Inman; Ron Inman; Strong, Despina; Beth Schmoyer

Subject: RE: in-line sewer sediment removal

Tom,

Attached is a letter regarding the removal of in-line sediment from the municipal sewer system. The letter states that upon notification to King County that the in-line sediment has been removed, King County would require that no further action be taken by NW Cascade in this matter.

I have also included here, preliminary information from the City on their requirements. Please contact Beth Schmoyer of Seattle Public Utilities at 206-386-1199 or e-mail her at beth.schmoyer@seattle.gov. prior to starting this work.

"Here's info on type of equipment they will need to use and documentation:"

1. Pressure jet, no mechanical cleaning with 60-80 gpm flow at 1,800-2,200 psi. Pipe jet must be centered in pipe (note pipe diameters range from 12-36").

- They will need to CCTV following cleaning to document that cleaning was accomplished and that no damage to pipe occurred. SPU will need to work with them to make sure their CCTV software is compatible with our maintenance tracking system so that this info can be uploaded for future maintenance scheduling.
- I will need advance warning so I can get the appropriate structure and line numbers to our line folks so
  they can put together a package of tracking forms that NW Cascade will need to fill out while they are
  cleaning so this information can also be uploaded into our maintenance tracking system.

Jim Sifford
King County Industrial Waste Program
Office: 206-263-3008
jim.sifford@kingcounty.gov
www.kingcounty.gov/industrialwaste

From: Tom Rogers [mailto:tomr@nwcascade.com]

Sent: Monday, January 03, 2011 9:20 AM

To: Tom Rogers; Sifford, Jim

Cc: Mark Perry; Marty Diklich; JR Inman; Ron Inman; Strong, Despina

Subject: RE: in-line sewer sediment removal

Hi Jim

Hope your holidays were good. I'm just checking in since our phone conversation prior to the holidays regarding clarification of my Dec. 3rd e-mail. We are ready to schedule the line cleaning once we get statement from your Dept. as described in our correspondence. Look forward to hearing from you.

Tom Rogers Northwest Cascade Inc. PO Box 73399 10412 John Bananola Way E Puyallup, WA 98373 800-444-2371

Cell 253-845-2545 Fax www.nwcascade.com

From: Tom Rogers

Sent: Friday, December 03, 2010 3:00 PM

To: 'Sifford, Jim'

Cc: Mark Perry; Marty Diklich; JR Inman; Ron Inman; Strong, Despina

Subject: RE: in-line sewer sediment removal

Jim

Subsequent to our meeting at your office regarding our position on cleaning the lines as described in your letter dated October 18th 2010. JR Inman has contacted Seattle Public Utilities to discuss their willingness to accept waste products at their facility, generated from our line cleaning activities. They were however, not amicable to this proposal. We are now looking for a private company to take this waste material. We have however, decided

to proceed with this operation upon written correspondence from your office that once this task is performed, combined with our previous operational changes, Northwest Cascade will be released of any future liabilities on this matter. We then will have achieved final closure on the issue of removing discharge of 1,4 Dichlorobenzene to the King County Sanitary Sewer System resulting from Northwest Cascade operations. We look forward to your response so we may commence line cleaning operations.

Tom Rogers Northwest Cascade Inc. PO Box 73399 10412 John Bananola Way E Puyallup, WA 98373 800-444-2371

(Cell 253-845-2545 Fax www.nwcascade.com

Moved in to The yard started dumping into sewer on property	4/1/2000	244	/	
started dumping into sewer on property		oute P&I	) Sales	
number of trucks based at the location	4/1/2000 ?	?	?	
	4/1/2001 ?	?	?	
	4/1/2002 ?	?	?	
	4/1/2003 ?	?	3	
	4/1/2004 ?	?	?	
	4/1/2005 ?	?	3	
	4/1/2006 ?	?	?	
	4/1/2007 ?	?	?	
	4/1/2008 ?	?	?	
	4/1/2009 ?	?	?	
	4/1/2010 ?	3	?	
	4/1/2011	8	1	2

#### Comments:

We have been using the same provider and type of urinal blocks from before April 2000 until we transitioned to non Para blocks about spring/summer of 2010 Paradichlorobenzine primarily disipates into the air.

When submerged in water it stops disipating into the air.

Small pieces of them can fit through the urinal tube.

Urinal tubes vary in size and function for allowing them to fall into the tank.

it is possible that some of the product can be carried into the waste tank with the urine.

Event units have never had urinal blocks as part of that type of service.

We could probably get historical data of how many gallons of waste was dumped at that location by every 2 month increments.

Some of the gallons that were dumped there was from other locations. IE Flohawks hauling in form Puyallup

For the first few years we were there we hand carried the products needed to Seattle from Puyallup

Some time in 2005 we started inventorying these products in Seattle and restocking monthly See attached

over the years we have taken product form there for needs at other locations, and added to there from other locations

when there is normal weather all of the sewage goes into the sewer treatment plant.

in times of high precipitation, the sewage can overflow into the open waters.

The sewers in that area flow are comingled with the storm and surface water runoff

How much of the wasteflow gets into the open waterways would be very difficult to detect.

prevolus to the testing by government agency last year, what other sources could have conributed to the contamination?

other portable toilet operators have operated in the area. And perhaps had dump stations

Month	2004	2005	2006	2007	2008	2009	2010	2011
January		16	18	26	26	15	25	17
February		23	15	24	16	15	8	22
March		26	21	23	31	20	23	24
April		29	28	33	31	25	20	20
May		29	41	43	31	30	9	17
June		55	42	36	41	39	42	34
July		10	42	66	56	44	22	26
August		32	63	46	20	40	27	23
September		29	26	46	39	35	17	31
October	36	32	44	36	34	24	25	
November	28	16	27	31	26	12	19	
December	22	19	19	?	16	24	22	
Cases of urinal blocks	86	316	386	410	367	323	259	214
144 urinal blocks in a case								

#### SITE ACCESS AND DISPOSAL AGREEMENT

This Site Access and Disposal Agreement ("Agreement") is made between Northwest Cascade, Inc. ("NWC") and the City of Seattle ("City") (collectively the "Parties").

#### **RECITALS**

- A. NWC legally occupies the commercial property located at 3414½ Second Avenue South, Seattle, Washington (the "Property").
- B. The City wishes to conduct line cleaning of the City's combined sewer system along South Hinds Street and East Marginal Way South (the "Work"), adjacent to the Property.
- C. The Parties have agreed to enter into this Agreement, which provides the City and its contractors, consultants, and agents with access to the Property in order to perform the Work in a manner that minimizes interference with existing uses of the Property, provides for disposal of the material removed from the line, allocates the cost of disposal between the Parties, and resolves all potential claims relating to the Work.
- D. This Agreement sets forth the terms under which NWC shall provide the City with access to the Property, the manner in which the material removed from the pipe will be dewatered and disposed, and payment for disposal costs.

In consideration of the mutual covenants and agreement herein, the Parties agree as follows:

#### **AGREEMENT**

The above-identified Recitals are incorporated as terms of this Agreement. NWC hereby grants to the City and its contractors, consultants, and agents access to the Property to conduct the Work. The City agrees that it will provide a copy of this Agreement to any contractor, consultant, or agent retained to assist in the Work, and that all contractors, consultants, and agents must agree in writing to be bound by its terms. This Agreement does not grant an easement or any other interest in the Property. The time and manner of such access shall be pursuant to the terms of this Agreement:

1. Time/Schedule:

Site Access and Disposal Agreement

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- a. Access under this Agreement shall remain in full force and effect from the Effective Date until the completion of the Work.
- c. Immediately upon execution of this Agreement, the City shall have access to the Property to place equipment in accordance with Exhibit A. Except for placement of equipment, the City shall coordinate with NWC at least twenty four (24) hours prior to the commencement of the Work to determine such details as ingress and egress to the area of the Work, to discuss the expected start date and duration of the Work, and to coordinate scheduling that is acceptable to NWC. City shall give NWC notice in writing via U.S. mail or e-mail before commencing the Work. Such notice shall include the specific nature of the Work to be performed, the schedule for the performance of the Work, the specific area(s) that need to be made available for the Work and the estimated completion date for the Work. The City will also identify any contractors, consultants, or agents and the approximate number of individuals working on behalf of such contractors, consultants, or agents, and the type of equipment that will be used in performing the Work. Written notice shall be effective upon receipt.
- d. The City, directly or through its contractors, consultants, or agents, shall notify NWC of any material proposed change in the Work that will significantly alter the schedule by written, e-mail, or telephonic notice. This notice must be received by NWC and the changes must be approved by NWC before the City may implement such changes. Such approval by NWC shall not be unreasonably withheld.
- e. Subject to Paragraph 1.c, the City and its contractors, consultants, and agents shall have access to the Property during normal business hours starting on the Effective Date of this Agreement. Unless the Parties agree in writing otherwise, normal business hours shall be defined as Monday through Friday between the hours of 8:00 a.m. and 6:00 p.m. Pacific Standard Time.

#### 2. Performance of Work

- a. The City, through its contractors, consultants, or agents, shall perform the Work in a prompt, safe, efficient, good, and workmanlike manner so as not to cause any damage to the Property.
- b. NWC, and its authorized representatives, may, at their sole discretion, elect to observe the City's performance of Work. If requested by NWC or its authorized representatives, the City shall split samples with NWC. NWC or its authorized representatives shall supply their own sample containers, coolers, chain-of-custody forms, and any other equipment or field supplies necessary to obtain and submit any split samples collected for analysis. NWC shall be solely responsible for the costs or expenses associated with obtaining and analyzing split samples. NWC shall provide the City with the final, validated data from any split samples obtained by NWC.
- c. The City shall clean out the combined sewer lines, decant the material in tanks that are place on the Property, and discharge decant water to the sanitary sewer on the Property under a project-specific discharge authorization with King County. The material shall be sufficiently decanted so that it meets the criteria for Waste Management's Organic Recovery Unit (ORU). A copy of the ORU criteria is attached as Exhibit B. The City will collect the confirmation samples and complete the reporting required under the discharge authorization with King County. All costs associated with this work shall be borne by the City.
- d. Once decanted, the City will sample the solids material for TCLP metals; TCLP 1,4 dcb; total 1,4 dcb and PCBs. The City will pay for all sampling costs, except for any split samples taken by NWC pursuant to Paragraph 2(b) above.
- e. If the sampling indicates that the material is not a hazardous waste, the City shall dispose of the material at its own expense.
- f. If the sampling indicates that the material is a hazardous waste based on detections of 1,4 dcb, NWC shall have ten (10) days to ensure that the material is disposed of as cost effectively as possible, including dewatering the material as much as practicable, conducting treatment consistent with applicable local, state and federal laws, regulations and policies, and

working with Waste Management or another appropriate waste facility to minimize the disposal costs. All costs associated such efforts shall be borne by NWC.

- g. At the end of the ten (10) day period, the material shall be disposed of in accordance with the October 21, 2011 quote from Waste Management for disposal or under a less expensive cost quote from Waste Management or another appropriately licensed waste facility obtained by NWC, so long as the specified less expensive disposal option is available to the City and complies with all local, state and federal laws, regulations and policies.
- h. If the material designates as hazardous waste pursuant to subparagraph (f) above, the cost for disposal shall be shared as follows: The City shall be responsible for the cost of disposal of the material, based on the assumption that the material did not contain 1,4 dichlorobenzene ("1,4 dcb"). NWC shall pay any incremental increase in disposal costs based on the presence of 1,4 dcb. The City shall provide to NWC the waste manifests, the Certificate of Disposal, the land restriction disposal form, a copy of the invoice for disposal, and a bill based on the invoice for disposal less a credit for the City's cost of disposal if the material had not contained 1,4 dcb. NWC shall pay the bill from the City within thirty (30) days.
- After completion of the Work, the City shall restore affected areas of the Property.
- j. The City agrees to provide NWC with the final results of all analytical testing of any and all material removed and/or sampled as part of the Work. Upon request, the City also agrees to provide copies of all field notes, boring logs, quality assurance/quality control data, and chain-of-custody records that are not privileged or work product associated with sampling activities conducted pursuant to this Agreement. Other than analytical results, NWC shall reimburse City's reasonable copying costs for such information.
- 3. <u>NWC's Cooperation with the Work</u>. NWC, including its representatives, contractors, or agents, shall cooperate in the performance of the Work by the City, including its contractors, consultants, or agents.

4. Compliance with Applicable Laws/Safety Standards. The City, including its

contractors, consultants, and agents, shall at all times perform the Work at the Property in

accordance with applicable statutes, orders, rules and regulations of any public authority with

jurisdiction, including, but not limited to, laws pertaining to worker safety and notices. Similarly,

NWC, including its contractors, consultants, and agents, shall at all times perform any work

under Paragraph 2(f) in accordance with applicable statutes, orders, rules and regulations of any

public authority with jurisdiction, including, but not limited to, laws pertaining to worker safety

and notices.

5. <u>Liens</u>. The City shall discharge at once, bond, or otherwise secure against all liens

and attachments that are filed as a result of the Work performed by City, and shall indemnify and

save NWC harmless from and against any and all loss, damage, injury, liability, and claims

thereof resulting directly from such liens and attachments.

6. <u>Site Repair</u>. The City, including its contractors, consultants, and agents, shall

perform all Work in a prompt, safe, efficient, good, and workmanlike manner so as not to cause

any damage to the Property, and shall repair or replace any and all damage, other than through

reasonable wear and tear, to the Property. To the extent necessary, the City shall be responsible

for locating utilities, identifying property boundaries, and obtaining permission for any Work

performed off the Property.

7. Party Representatives, Communication under this Agreement shall be directed to

the following party representatives:

To NWC:

Stephen T. Parkinson

Groff Murphy, PLLC 300 East Pine Street

Seattle, WA 98122

Dl. . . . . 206 922 149

Phone: 206-832-1484

Fax: 206-628-9506

Marty Diklich

Northwest Cascade, Inc.

P.O. Box 73399

Puyallup, WA 98373

Phone: 253-848-2371 Fax: 253-848-2545

To the City:

Tad H. Shimazu City of Seattle Attorney's Office 600 Fourth Avenue, 4<sup>th</sup> Floor P.O. Box 94769 Seattle, WA 98124-4769 Phone: 206-233-2151

Fax: 206-684-8284

Beth Schmoyer Seattle Public Utilities 700 Fifth Avenue, Suite 4900 PO Box 34018 Seattle, WA 98124-4018 Phone: 206-386-1199

Fax: 206-233-1532

Any Party may change the person or address to which communication may be directed by giving notice to the representatives provided above.

8. <u>Insurance</u>. The City shall require its contractors, consultants, and/or agents entering the Property to maintain insurance coverage as set forth herein. The coverage limits identified herein are minimum amounts. If City requires its contractors, consultants, and/or agents to maintain policies with higher limits, such higher limits shall be used for the Work on the Property. Contractors shall maintain comprehensive general liability insurance ("CGL"), with limits of \$1,000,000 per claim and \$1,000,000 annual aggregate. The City shall also require its contractors, consultants, and/or agents to maintain automobile liability insurance covering all owned, hired, or otherwise operated non-owned vehicles with a minimum combined single limit of \$1,000,000 each occurrence for bodily injury or property damage. NWC shall be named as an additional insured on CGL and automobile insurance policies. The City shall provide to NWC documentary evidence of insurance required under this Paragraph prior to performing the Work.

#### 9. Indemnification.

a. The City shall be solely responsible for ensuring that its employees, agents, consultants, and contractors comply with applicable federal, state, and local laws and

regulations and shall be solely responsible for the health and safety of its employees, agents, consultants, and contractors while performing the Work.

- b. To the Extent allowed by law, the City shall indemnify, defend, and hold NWC harmless from and against any and all liabilities, claims, demands, losses, or expenses, including, but not limited to, reasonable attorneys' fees and costs, arising in connection with the claim of any person as a result of death, bodily injury, or damage to personal property arising out of any activities conducted by the City, its agents, consultants, or contractors, on the Property. Nothing in this provision shall require the City, its contractors, consultants, or agents to indemnify, defend, or hold harmless to the extent that the liabilities, claims, demands, losses, or expenses arise from the negligence of NWC, its agents or employees. To the extent that a claim arises out of the concurrent negligence of 1) NWC, its agents and employees, and 2) City and its employees, contractors, consultants, and agents, the City shall only be responsible to indemnify, defend, and hold harmless to the extent of the negligence of the City, its employees, contractors, consultants, and agents. For the purposes of this indemnification only, City agrees to waive its immunity with respect to The Washington Industrial Insurance Act, RCW Title 51. This indemnification was specifically negotiated.
- c. NWC will provide prompt written notice to the City within thirty (30) days of receipt of a claim for which it requests indemnification or defense. The indemnity provisions of this Agreement shall survive termination of this Agreement.
- 10. <u>Confidentiality</u>. Subject to the terms of this Agreement, the City shall have full use of all data, sampling results, and other site characterization data obtained in performing the Work, and shall have full discretion to disclose and report such information to third parties including, but not limited to, the Washington State Department of Ecology and King County.
- 11. Relationship of Parties. Nothing in this Agreement shall be deemed to create a partnership or joint venture and/or principal and agent relationship between the Parties. No Party or authorized representative shall have authority to act as a general agent for the other Party or to bid for or undertake any contracts enforceable against the other Party.

- 12. <u>Enforceability</u>. If any part of this Agreement is for any reason found to be unenforceable, all other portions nevertheless remain enforceable.
- 13. <u>Prevailing Party</u>. In any action brought to enforce the terms of the Agreement, the prevailing Party shall be entitled to recover its reasonable attorneys' fees and costs incurred therein.
- 14. <u>Signatories</u>. This Agreement may be executed in one or more counterparts and by facsimile signatures, each of which shall be deemed an original agreement, but all of which together shall constitute one and the same instrument.

#### 15. <u>Mutual Release and Covenant Not to Sue.</u>

(a) Except as otherwise set forth in this Agreement, the City, severally and individually, for itself and assigns, and its employees, agents, representatives, and for any other person or persons, or entity or entities acting by, for, or through the City, hereby fully and unconditionally surrender to and release, acquit, forever discharge and covenant not to sue NWC and its partners, successors, affiliates, subsidiaries, predecessors, assigns, insurers, bonding companies, members, officers, directors, shareholders, agents, consultants, architects, engineers, sub-consultants, employees, attorneys, marital communities, any parent, subsidiary or affiliated entity, and all persons acting by, through, under or in concert with NWC, and their respective successors and assigns (the "NWC Protectees") from and against any and all manner of action or actions, cause or causes of action, debts, liabilities, losses, suits, damages, costs, expenses (including but not limited to attorneys' fees), sums of money, demands, obligations or claims, whatsoever, in law or in equity, direct or indirect, whether or not now known or unknown. suspected or claimed, vested or contingent, which they ever had, now have or may have against the NWC Protectees, pertaining or relating to the Work and disposal of material under this Agreement.

- (b) Except as otherwise set forth in this Agreement, NWC for itself and its parents, affiliates, subsidiaries, predecessors, successors, and assigns, and its or their members, officers, directors, shareholders, employees, agents, representatives, and for any other person or persons, or entity or entities acting by, for, or through NWC, hereby fully and unconditionally surrender to and release, acquit, and forever discharge and covenant not to sue the City or its assigns, insurers, bonding companies, agents, consultants, architects, engineers, sub-consultants, employees, attorneys, and all persons acting by, through, under or in concert with the City, and its respective successors and assigns (the "City Protectees") from and against any and all manner of action or actions, cause or causes of action, debts, liabilities, losses, suits, damages, costs, expenses (including but not limited to attorneys' fees), sums of money, demands, obligations or claims, whatsoever, in law or in equity, direct or indirect, whether or not now known or unknown, suspected or claimed, vested or contingent, which they ever had, now have or may have against the City Protectees pertaining or relating to the Work and disposal of material under this Agreement.
- (c) In keeping with the Parties' mutual covenants and releases, the Parties agree that they will not encourage, urge or request a person not a party to this Agreement to institute suit against any of the Parties in connection with any matter covered by this Agreement or under any law, common law theory or claim related to the Property and/or applicable to the matters addressed in this Agreement.
- 16. No Admission of Liability. It is expressly understood and agreed that the Parties do not admit any violation of law or any liability to each other, such liability being expressly denied, and the execution or performance of this Agreement shall not be for any purpose construed as an admission of liability.

17. Authority to Execute. Each person executing this Agreement on behalf of another person or entity represents and warrants that he or she is fully authorized to execute and deliver this Agreement on behalf of such person or entity. The Parties each represent and warrant to each other that no consent of any person or entity not a party to this Agreement is necessary in order for this Agreement to be fully and completely binding upon the Parties.

18. Entire Agreement. This Agreement contains the entire understanding between the Parties hereto and supersedes any prior understandings and agreements between the Parties with respect to the subject matter hereof. There are no other representations, agreements, arrangements or understandings, verbal or written, between and among the Parties, or any of them, relating to the subject matter of this Agreement. No amendment or supplement to this Agreement shall be valid or effective unless made in writing and executed by the Parties.

19. No Waiver of Remedy for Breach. A failure by any Party to enforce a term or condition of this Agreement does not constitute a waiver of that Party's remedies for any breach of this Agreement. Waiver by a Party to this Agreement of one or more terms or conditions of this Agreement does not constitute a waiver of any other terms or conditions of this Agreement.

20. <u>Applicable Law</u>. This Agreement shall be construed and interpreted under the laws of the State of Washington. Venue for all disputes shall be King County, Washington.

21. <u>Successors</u>. This Agreement shall bind and inure to the benefit of the Parties' successors, assigns, and heirs.

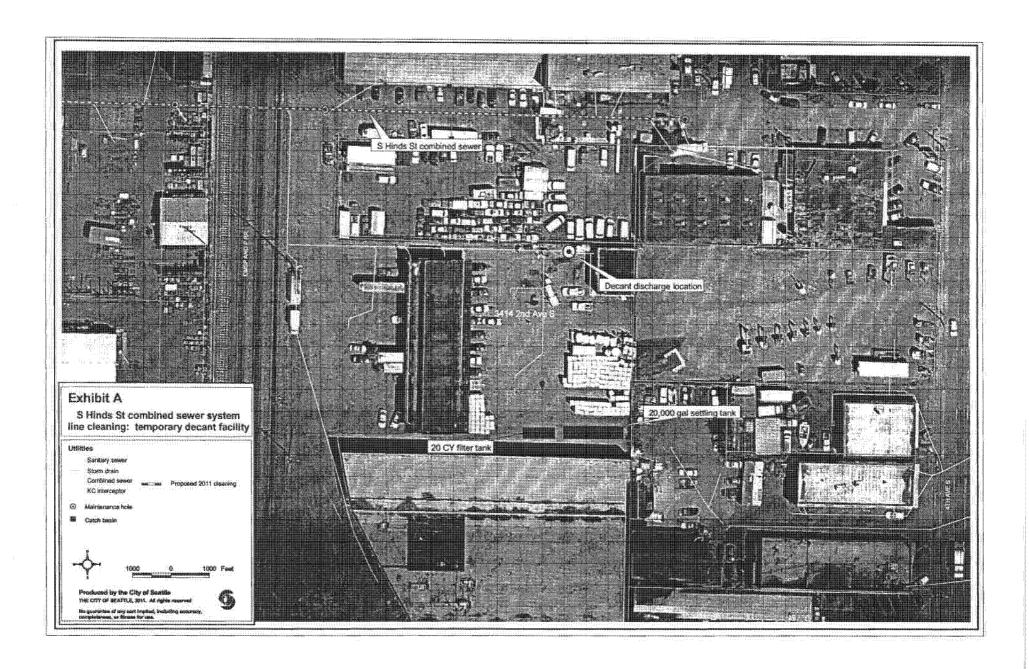
22. <u>Effective Date</u>. The Effective Date of this Agreement is the first date upon which the Agreement has been executed by all Parties.

Accepted:

Northwest Cascade, Inc.	City of Seattle	
By: 1- M- Ostlin Title: PRESIDENT  Date: 12/2/11	By: Title: Date:	

Site Access and Disposal Agreement

## Exhibit A



## Exhibit B

#### **Steve Parkinson**

From: Sent: WM PNW LFPC [WMPNW2@wm.com]

To:

Thursday, December 01, 2011 2:15 PM Steve Parkinson

Subject:

RE: ORU

Hello Steve,

Here is the information for our ORU:

Organic RCRA for treatment (that is not covered by a CMBST specified technology), no mercury over 100 ppm total, no TSCA PCBs, TSCA PCBs are case by case, free liquids <5% in drums (none allowed in bulk), total moisture capped at 25% max, no dioxins/furans, matrix must be soil/pelletized/similar size, no D001/D002/D003.

If you have any other questions, please let me know.

Thank you,

Margorie Carothers

Technical Service Representative

Waste Management

Technical Service Center PNW

P: (503) 493-7871 F: (866) 333-2192

WM landfills provide over 26,000 acres of protected habitat for wildlife and 103 WM landfills and facilities are certified by the wildlife Habitat Council.

From: Steve Parkinson [mailto:sparkinson@GroffMurphy.com]

Sent: Thursday, December 01, 2011 12:16 PM

To: WM PNW LFPC Subject: ORU

Please email to me the acceptability criteria for the ORU.

Thanks, Steve

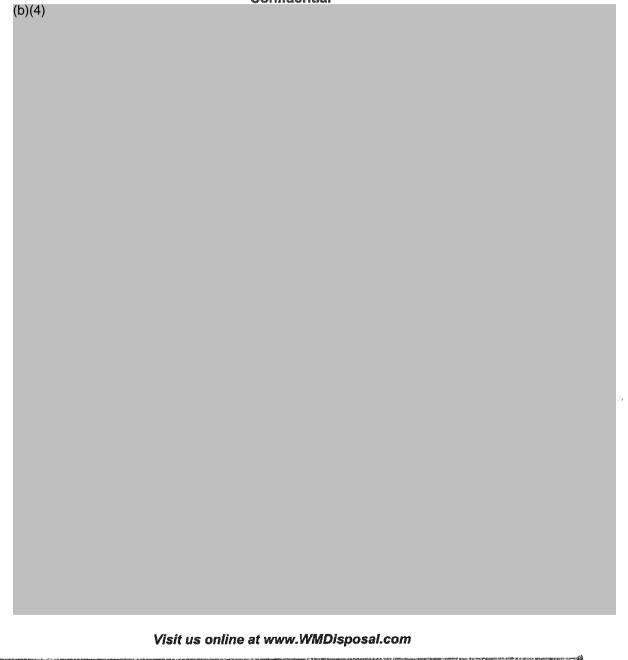
**Stephen Parkinson Groff Murphy, PLLC**300 East Pine St., Seattle, WA 98122
T:(206) 832-1484
F:(206) 628-9506

## Exhibit C



October 21, 2011 – Dichlorobenzene/PCB waste disposal quote

Confidential





From everyday collection to environmental protection, Think Green.® Think Waste Management.





PRICE SCHEDULE		
(b) (4)	YYYYYYYYYY III LUYYYYYYY III II II II II II II II II II I	B1119**********************************



From everyday collection to environmental protection, Think Green.\* Think Waste Management.



#### **Special Conditions**

#### **ACKNOWLEDGEMENT**

Signature	Date	
Thank you for the opportunity.		
Your signature below indicates your acceptance of the	e pricing and terms detailed in the above que	ote.

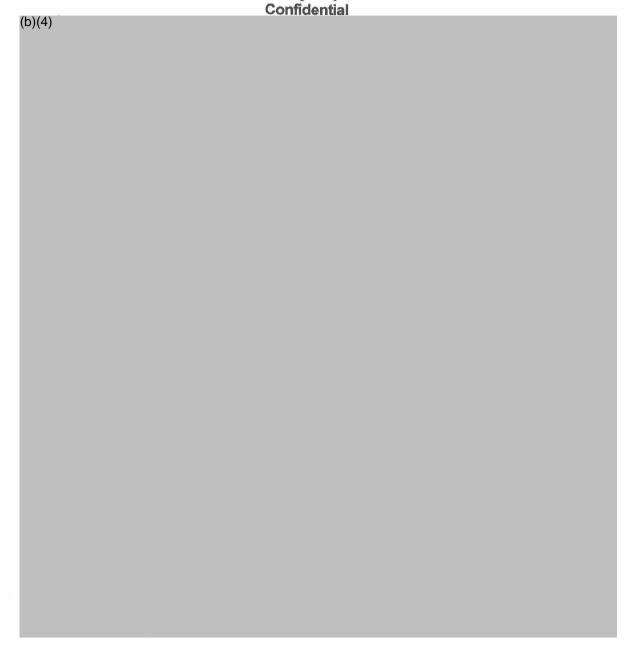
Printed Name

Visit us online at www.WMDisposal.com or call us at 1-800-WMDisposal.



From everyday collection to environmental protection, Think Green.\* Think Waste Management.



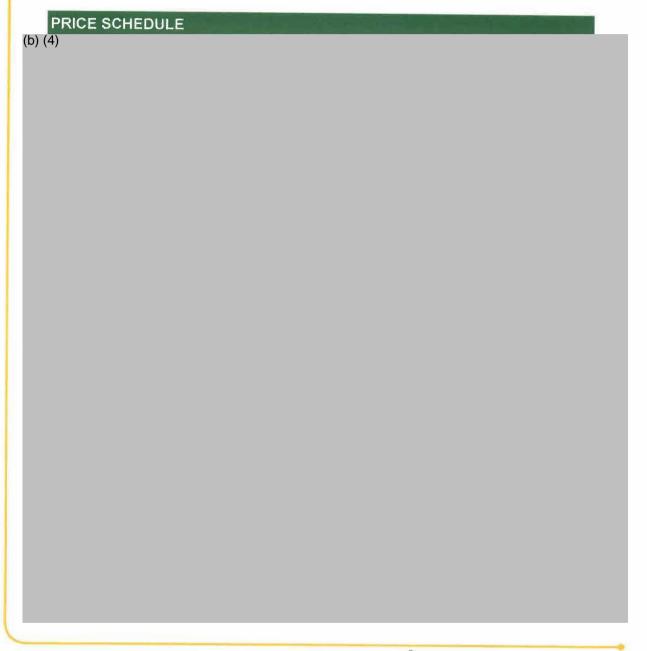




Visit us online at www.WMDisposal.com

From everyday collection to environmental protection, Think Green. Think Waste Management.







From everyday collection to environmental protection, Think Green.\* Think Waste Management.



#### **Special Conditions**

#### **ACKNOWLEDGEMENT**

Signature	Doto
Thank you for the opportunity.	
Thank you for the opportunity.	
Your signature below indicates your acceptance of the p	ricing and terms detailed in the above quote.

Printed Name

Visit us online at www.WMDisposal.com or call us at 1-800-WMDisposal.



#### **Marty Diklich**

From:

Schmoyer, Beth [Beth.Schmoyer@seattle.gov]

Sent:

Thursday, November 10, 2011 2:27 PM

To:

Marty Diklich

Cc:

Sifford, Jim; Strong, Despina

Subject:

S Hinds St combined sewer cleaning

Attachments: Solids\_hand-disp\_landfill.pdf; Solids\_hand-disp\_incin.pdf; Solids\_hand-disp\_SPU.pdf; History

649681.pdf; ExhibitD-2.pdf

Marty, attached are 3 cost estimates. All cover solids handling and disposal only. Option 3 is provided to show the difference in cost between normal line cleaning operations and this case where the material classifies as hazardous waste

- 1. Solids\_hand-disp\_landfill: treatment and disposal at a Subtitle C hazardous waste landfill. This looks to be the least expensive option. It involves having waste disposal vendor treat the material onsite to reduce 1.4dichlorobenzene levels to below 60 mg/kg so that it can be disposed in a hazardous waste landfill. We have gotten approval from Ecology to classify this material as soil, so it is subject to the higher land disposal requirement (60 versus 6 mg/kg).
- 2. Solids hand-disp incin: direct incineration.

Note that both 1 & 2 will require additional sampling/analysis of material removed from the pipe to document waste characteristics prior to disposal. I am waiting for info from both vendors to determine what type of sampling will be required. Sampling costs are not included in the cost estimates.

3. Solids\_hand-disp\_SPU: typical City costs for handling/disposing non-contaminated material removed during line clean projects.

I've included a work order history report from SPU Field Operations documenting line cleaning operations in this area over the past 5-6 years. The section of line between MH057-008 and MH057-003 (see attached map) has been cleaned 5 times in the past 6 years (April 2008, October 2008, January 2009, April 2011, June 2011). Keys to the abbreviations on this report:

405: jet cleaning by SPU crews 466: jet cleaning by contractor 489: CCTV by contractor

WAPPR: waiting approval CM: corrective maintenance PM: preventative maintenance

INSP: inspection

ENV: environmental issue

NCN: new construction/installation

Please call me at (206) 386-1199. As I mentioned on the phone this morning, SPU would like to clean this line in 2011. We have a contractor ready to begin work as soon as early next week.

	Combined sewer line cleaning: S Hinds St and E Marginal Wy S (SPU lines only) Sediment handling/disposal costs for SPU lines Waste Management
(b)	(4)

Combined sewer line cleaning: S Hinds St and E Marginal Wy S (SPU lines only) Sediment handling/disposal costs for SPU lines Clean Harbors



b. November 9, 2011 bid from Clean Harbors:
Incineration at \$892.8571 per flex bin (1,500 lbs max per container or surcharged)
Transportation price included in disposal price
4.5% recovery fee based on DOE national average diesel price applied to total invoice

cost\_est.xlsx

	Costs for handling non-contaminated material removed from SPU mainlines
(	o) (4)
yuur	

cost\_est.xlsx SPU\_costs

# **Asset History Report**

**EQNUM:** 649681 **Description:** COMBINED MAIN LINE - 057-008 057-003 LOC: 057\_WW **Description:** MAP 057 - WASTEWATER MAIN LINES

ADDR LOC: 3400 2ND AVE S

### **Equip Spec Mainline**

US ENDPOINT ID: 057-008
DS ENDPOINT TYPE: MH
DS ENDPOINT ID: 057-003
PARALLEL:
US DEPTH: 6.5
USE: COMB
DS DEPTH: 4.8
US METERED? N
DS METERED? N
DS DEPTH: 4.8
DS BURIED? N

MATERIAL: VC PIPE SHAPE: CIR
RELINE TYPE: PIPE WIDTH: 12
TILE: 121 PIPE HEIGHT: 12 CRITICAL:
CASING? N LENGTH: 131.03

CUNETTE? N SLOPE: 0.0021 # OF INCOMING MAINS: 1 FLOW: GRAVITY

DIST TO HYDRANT FROM DS

#### **PM** Schedule

<b>PMID</b>	Description	FREQ	FREQUNIT	LastComp	Next Due
179779	CCTV COMBINED MAIN LINE - 057-008 057-003	72	MONTHS	7/26/2011	1/1/2017
22443	JET CLEAN COMBINED MAIN LINE - 057-008 057-003	24	MONTHS	4/15/2011	4/15/2013

<b>WO His</b>	tory								
WONUM	DWACT	WOStatus	PM?	WKTyne	Report	ActComp	Last Labor	Unito Cons	Joh Dolov
2972771	476	WAPPR	- 1011	NCN		Actoonly	Charge Date	Offics Crip	Jobbelay
2012111	Problem:	AACAL LITE		Severi	11/4/2011				
2726310-2	50 TO 91 D SUDDE	CLOSE		CM	-	7/28/2011	7/28/2011	131	CLNCDEO
	Problem:	SLUDGE		Severi			112012011	131	CLNGREQ
2839474	466	WAPPR		CM	7/14/2011	5 10 5 10			
	Problem:			Severi					
2839455	489	WAPPR		INSP	7/14/2011				
	Problem:			Severi					
2726310-1		CLOSE		CM		6/28/2011	6/28/2011	131	CLNGREQ
2726240	Problem:	DEBRIS	h.c.	Severi	was and				
2726310	480 Problem:	CLOSE	Y			7/26/2011	7/28/2011	130	CLNGREQ
2709278	405	CLOSE	Υ	Severi PM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1// 5/00 14	101	
2/032/0	Problem:	DEBRIS	I	Severi			4/15/2011	131	
2379111	413	CLOSE			6/1/2010	6/1/2010	6/1/2010	1	
	Problem:	NOPROB		Severi		0/1/2010	0/1/2010	1	
1780265-2	405	CLOSE		PM	-	1/30/2009	1/30/2009	131	
	Problem:	DEBRIS		Severi			., 00, 200		
1780265	413	CLOSE		INSP	1/28/2009	1/28/2009	1/28/2009	1	
	Problem:	NOPROB		Severi					
1683482	413	CLOSE				10/29/2008	10/29/2008	1	
1666288-1	Problem:	NOPROB		Severi	y			3 24 6	
1000200-1	405 Problem:	CLOSE DEBRIS				10/30/2008	10/30/2008	131	
1666288	413	CLOSE		Severi	<b>4</b> 1 (0.0000000000000000000000000000000000	1.00	40/00/0000		
1000200	Problem:	RISE		Severit		10/22/2008	10/22/2008	1	
1420204	405	district our	Υ			4/6/2008	4/6/2008	131	
	Problem:	DEBRIS		Severit			7/0/2000	151	
801070	413	CLOSE			12/15/2005	· · · ·		1	
	Problem:	UNK		Severit					
Page 1 of 1		Created by:	doylek				Monda	ay, Novembe	er 07. 2011

**NWC 001544** 



## Clean Portable Restrooms ... Best in the Business

#### Exhibit F

There are no fixed tanks associated with the business activity listed in section C item 2. The waste material is transported onto the site from trucks.

There are no tanks for the chemical noted in section C Item 4. This product (Walex PT 50) is stored in a 55 gallon drum and then transferred to 1 gallon containers for use in the portable sanitation. 1 ounce of the product is applied inside each portable restroom when it is serviced. The average waste from a portable restroom being serviced is 16 gallons. 16 gallons times 128 ounces equals 2046 ounces. This is how we arrive the 2000 parts of wastewater to 1 part of Walex PT 50.

Ron Inman Vice President – Honey Bucket



#### Clean Portable Restrooms ... Best in the Business

#### Exhibit I

1 ounce of the Walex PT 50 is applied inside each portable restroom when it is serviced. The average waste from a portable restroom being serviced is 16 gallons. 16 gallons times 128 ounces equals 2046 ounces. This is how we arrive the 2000 parts of wastewater to 1 part of Walex PT 50.

We have 12 trucks that primarily dump there. They vary in size from 450 gallons to 1300 gallons. Assuming an average of 550 gallons a day since they are not all full when they are done with their day we arrive at 6600 gallons per day average.

If they are all full when they arrive and some have to dump more than once during a day due to large capacities of event units (IE Seafair etc) the max in a day would be 12,000 gallons.

There is one waste meter in the ground shown on the attachment. The one building on the property has 1 bathroom. There are no employees at the site full time. Generally employees arrive and get into their trucks and leave to do their work. The assumptions for use of the bathroom is based on the average number of people for all shifts combined at 5 gallons per person. 20 times 5 equals 100 gallons. And for the maximum number of people for all shifts combined at 5 gallons per person. 31 times 5 equals 155 gallons.

The trucks fill with fresh water on the site, go out to service portable restrooms and put 5 gallons of fresh water in the restroom holding tank. Just prior to that they pump out the waste, which is usually the 5 gallons we left there plus whatever waste they left there. The freshwater capacity on the trucks vary from 300 gallons to 500 gallons.

We have 2 years of historical data from the water meter and sewer meter readings as part of the exhibit.

Ron Inman Vice President – Honey Bucket

800-562-4442 fax 253-848-2545 • P.O. Box 73399 • Puyallup, Washington 98374 • www.nwcascade.com



To: Seattle Public Utilities
Attn: Audit Department
Fax (206) 233-8742
From: Northwest Cascade Inc.
Account # 2-514131-473042
3414.5 2 <sup>nd</sup> Ave. S
Seattle
Fax (206) 264-1605
Phone 800-562-4442
Date of Reading: 04/04/11
Reading taken by:
Fresh water meter reading:04 in cubic feet Meter # HERSEY00202621
Sewage meter reading: <u>1784503</u> in cubic feet Meter # DAN722524T400

Attn: Audit Department
Fax (206) 233-8742
From: Northwest Cascade Inc. Account # 2-514131-473042 3414.5 2 <sup>nd</sup> Ave. S Seattle Fax (206) 264-1605 Phone 800-562-4442
Date of Reading: 12/30/11
Reading taken by: <u>JEFF NAGRODSKI</u>
Fresh water meter reading: <u>543.05</u> in cubic feet Meter # HERSEY11403604
Sewage meter reading: 8239.00 in X10 cubic feet Meter # ELSTER10127691